NTISUB/B/139—76/011

LANDSAT

NON-U.S. STANDARD CATALOG

1 NOVEMBER 1976

THROUGH

30 NOVEMBER 1976

GSFC/LN—76/011

GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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The Non-U.S. Standard Catalog lists Non-U.S. imagery acquired by Landsat 1 and Landsat 2 which has been processed and input to the data files during the referenced month. Data, such as date acquired, cloud cover and image quality are given for each scene. The microfilm roll and frame on which the scene may be found is also given.

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17b. Identifiers/Open-Ended Terms

Landsat (formerly ERTS)
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Earth Resources Technology Satellite

17c. COSATI Field/Group

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INTRODUCTION

To provide dissemination of information regarding the availability of Landsat imagery, the Image Processing Facility (IPF), located at the Goddard Space Flight Center, publishes a U. S. and Non-U. S. Standard Catalog on a monthly schedule. These catalogs identify imagery which has been processed and input to the data files during the referenced month. The U. S. Standard Catalog includes imagery covering the continental United States, Alaska and Hawaii; the Non-U. S. Catalog identifies all the remaining coverage. Imagery adjacent to the continental U. S. and Alaska borders will normally appear in the U. S. Standard Catalog. As a supplement to these catalogs, the Landsat imagery of one spectral band is available on 16mm microfilm.

In addition to the routine monthly catalogs, the IPF annually publishes a cumulative U. S. and Non-U. S. Standard Catalog for each satellite, covering a year based on the launch date for that satellite. These catalogs include information on all observations acquired and processed by the facility during that year.

Film products for imagery listed in this catalog are available at a nominal price from all three agencies listed below. In addition, the 16mm microfilm can be purchased from the U. S. Department of the Interior (USDI) EROS Data Center and National Oceanic and Atmospheric Administration (NOAA). Digital tapes can be purchased only from the USDI EROS Data Center.

U. S. Department of Agriculture	Aerial Photography Field Office 2505 Parley's Way Salt Lake City, Utah 84109
U. S. Department of Commerce National Oceanic and Atmospheric Administration	Environment Data Service Satellite Data Service Branch D543 World Weather Building Room 606 Washington, D. C. 20233
U. S. Department of the Interior Geological Survey	User Services Unit EROS Data Center Sioux Falls, South Dakota 57198

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SECTION 1 — STANDARD CATALOG

1.1 MONTHLY CATALOGS

The coverage sections contained in the monthly U.S. and Non-U.S. Standard Catalogs are divided into three parts. Part 1 (see Para. 1.1,A) consists of annotated maps which graphically depict the geographic areas covered by imagery listed in the current catalog. Part 2 (see Para. 1.1,B) contains a computer generated listing organized by observation identification number (ID) and includes pertinent information about each image. Part 3 (see Para. 1.1,C) provides a computer listing of observations organized by longitude/latitude.

A. Satellite Coverage Maps. These maps are segregated by cycle and depict the general location of observations listed in the catalog. The format and data content of these maps are slightly different in the U.S. and Non-U.S. catalogs.

1. U.S. Satellite Coverage Maps. Two separate map formats are presented in this catalog. One map outlines the continental U.S. and depicts the estimated cloud cover along each north to south subsatellite path. Each path is identified by actual orbit number and a cross reference, which matches the orbit number to the initial observation ID for that path. The second map provides an enlarged view of Alaska and Hawaii and displays the portion of an orbital pass for which coverage is available. This map does not include cloud cover estimates or orbit numbers.

2. Non-U.S. Satellite Coverage Map. A world outline map is provided with the portions of an orbital swath for which observations are available graphically displayed. This map is intended solely to inform the user as to whether or not coverage is included in the catalog for his area of interest. It is not intended as a rapid reference to specific observations.

B. Observation Identification Number (ID) Listing. The data format for the observation ID listing is identical in the U.S. and Non-U.S. Catalogs. Observation ID numbers are listed in a sequential manner from smallest number to largest. Associated with each ID number in the list is pertinent information about that observation. A sample catalog page with a description of each data item is shown in Figure 1-1.

1. Sample Observation ID Format. See Figure 1-1.

(1) 20 53 APR 04, '75 (2) FROM 02/01/75 TO 02/28/75

(4) OBSERVATION ID	(5) MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	(6) DATE ACQUIRED	(7) CLOUD COVER	(8) ORBIT NUMBER	(9) PRINCIPAL POINT OF IMAGE LAT	LONG	(10) SUN ELEV	SUN AZIM	(11) IMAGE QUALITY RBV 123	MSS 45678
1943-16381	00000/0000	1-10034/0565	02/21/75	100	3149	4728N	09815W	25.3	144.8		GGGG
1943-16383	00000/0000	1-10034/0566	02/21/75	100	3149	4603N	09849W	26.3	143.9		GGG
1943-16390	00000/0000	1-10034/0567	02/21/75	100	3149	4438N	09923W	27.2	143.0		FGG
1943-16392	00000/0000	1-10034/0568	02/21/75	70	3149	4313N	09955W	28.2	142.1		GGFF
1943-16395	00000/0000	1-10034/0569	02/21/75	40	3149	4147N	10026W	29.1	141.2		FGGG
1944-16432	00000/0000	1-10034/0606	02/22/75	40	3163	4854N	09903W	24.7	145.5		GGGG
1944-16435	00000/0000	1-10034/0607	02/22/75	90	3163	4730N	09939W	25.6	144.6		FGGG
1944-16441	00000/0000	1-10034/0608	02/22/75	30	3163	4605N	10014W	26.6	143.8		GGGG

(3) KEY:

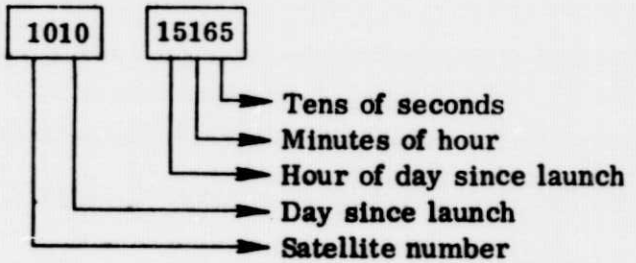
CLOUD COVER
- 0 TO 100 = % OF CLOUD COVER
- ** NO CLOUD DATA AVAILABLE

IMAGE QUALITY
- BLANK = BAND NOT PRESENT/REQUESTED
- G = GOOD P = POOR F = FAIR

Figure 1-1. Observation ID Listing for Standard Catalog

2. Description of Data Items

(1) Date of catalog listing
(2) Period during which imagery was processed
(3) Data quality
(4) Observation ID



(5) RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
(6) Date of observation
(7) Estimated percent of cloud cover
(8) Orbit number
(9) Latitude and longitude at observation center (degrees and minutes)
(10) Sun elevation and azimuth at observation center
(11) Image quality; see key

C. Longitude/Latitude Listing. The data format for the longitude/latitude listing is identical in the U.S. and Non-U.S. Catalogs. This listing contains the same observations as the observation ID listing but organizes them by coordinates, using image center location information for each observation. Observations in this listing will be sorted first by longitude and, within longitude, by latitude. The longitude/latitude listing is arranged in the following manner:

180-0 degrees East; 90-0 degrees North and 0-90 degrees South
followed by
0-180 degrees West; 90-0 degrees North and 0-90 degrees South

This listing is intended to be used as a tool for locating specific coverage, and once a specific observation has been identified, pertinent information about it can be found by referring to the ID listing.

Figure 1-2 below shows a sample catalog page with a description of each data item.

1. Sample Longitude/Latitude Format. See Figure 1-2.

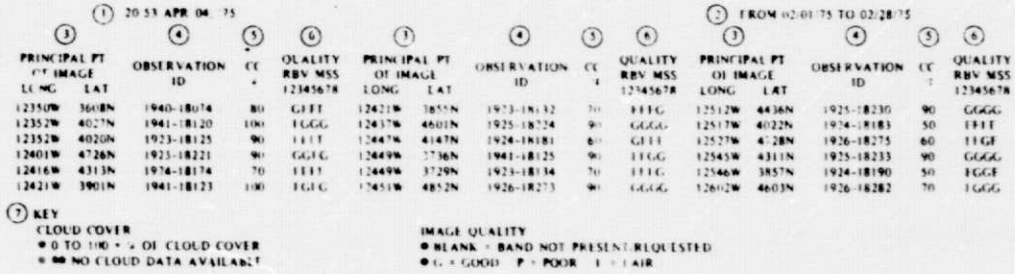


Figure 1-2. Coordinate Listing for Standard Catalog

2. Description of Data Items

① Date of catalog listing
② Period during which imagery was processed
③ Longitude and latitude at observation center (degrees and minutes)
④ Observation ID (see Fig. 1-1, Para. 1.1,B,2)
⑤ Estimated percent of cloud cover
⑥ Image quality; see key
⑦ Data quality

1.2 CUMULATIVE STANDARD CATALOGS

Annually, a cumulative catalog is produced which includes information covering all observations and coordinates acquired and processed by the IPF during that year.

A. Observation ID Listing.

1. Sample Observation ID Format. See Figure 1-1.

2. Description of Data Items. See Paragraph 1.1,B,2.

B. Coordinate ID Listing. The coordinate ID listing format is expanded to identify observations for which color or digital products have been made.

1. Sample Coordinate ID Format. See Figure 1-3.

(1) 15:36 MAR 11, '74 (2) FROM 07/23/72 TO 07/25/74

(9) PRINCIPAL POINT OF IMAGE LONG	LAT	(4) OBSERVATION ID	(5) MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	(6) DATE ACQUIRED	(7) CLOUD COVER %	(8) ORBIT NUMBER	(10) SUN ELEV.	SUN AZIM.	(11) IMAGE QUALITY RBV 123	MSS 45678	(12) PRODUCTS B C	P C	B D	P D
07607W	3734N	1295-15144	00000/0000	10010/1659	05/14/73	20	4112	60.2	122.0		GGGG			M	
07607W	3731N	1259-15150	00000/0000	10010/0088	04/08/73	90	3610	50.7	133.2		GGGG			M	
07607W	3731N	1313-15143	00000/0000	10011/0920	06/01/73	80	4363	62.3	116.2		GGGG			M	
07608W	4438N	1027-15231	00000/0000	1-10001/1498	08/19/72	0	375	50.9	136.9		GGGG	M		M	
07608W	3731N	1331-15142	00000/0000	1-10011/1589	06/19/73	100	4614	62.4	112.8		GGGG				
07608W	3724N	1349-15141	00000/0000	1-10012/1387	07/07/73	10	4865	61.2	112.9		PGPP	M		M	
07609W	4851N	1352-15275	00000/0000	1-10012/1622	07/10/73	60	4907	56.7	133.9		G				
07609W	3144N	1006-15093	1-10001/0377	1-10001/0378	07/29/72	100	82	59.7	108.3	GGG	PPGG				

(3) KEY:

CLOUD COVER
- 0 TO 100 = % OF CLOUD COVER

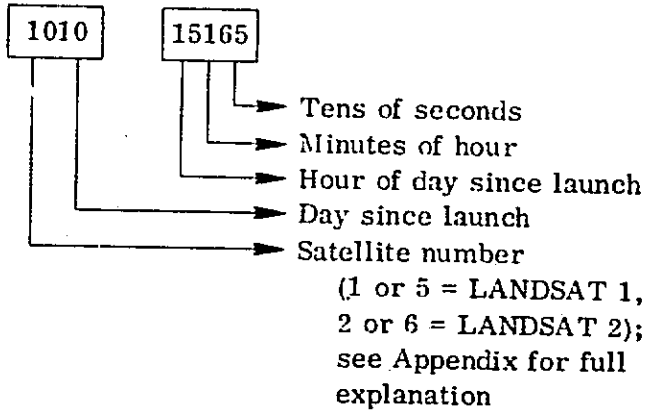
IMAGE QUALITY
- BLANK = BAND NOT PRESENT/REQUESTED
- G = GOOD P = POOR F = FAIR

PRODUCTS ALREADY MADE
- R = MADE FROM RBV M = MADE FROM MSS
  B = MADE FROM RBV AND MSS

Figure 1-3. Coordinate Listing for Cumulative Standard Catalog

2. Description of Data Items

① Date of catalog listing
② Period during which imagery was processed
③ Data quality
④ Observation ID



⑤ RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
⑥ Date of observation
⑦ Estimated percent of cloud cover
⑧ Orbit number
⑨ Latitude and longitude at observation center (degrees and minutes)
⑩ Sun elevation and azimuth at observation center
⑪ Image quality; see key
⑫ Image/data product availability; see key

SECTION 2 — MICROFILM

2.1 GENERAL

The Image Processing Facility produces a 16 mm microfilm inventory of imagery processed during the referenced month and is organized for convenient use with the Standard Catalog.

As in the case of the Standard Catalog, the microfilm data is divided into U.S. and Non-U.S. segments. Each set of microfilm images is in exact correspondence to a Standard Catalog and can be used in conjunction with the catalog for selecting desired images. A maximum of 1900 images will be contained on one roll of 16 mm x 100 ft microfilm. Because the microfilm images are intended to provide only a summary of the data available, the images are limited to one band each for the RBV and MSS. Although a single observation will produce seven images, in the production of microfilm only the RBV Spectral Band 2 images (0.580 - 0.680 microns) and MSS Spectral Band 2 images (0.6 - 0.7 microns) are reproduced. Each image is a photograph of a 70 mm (-2) image and contains the image identifier and annotation block. See Figure 2-1.

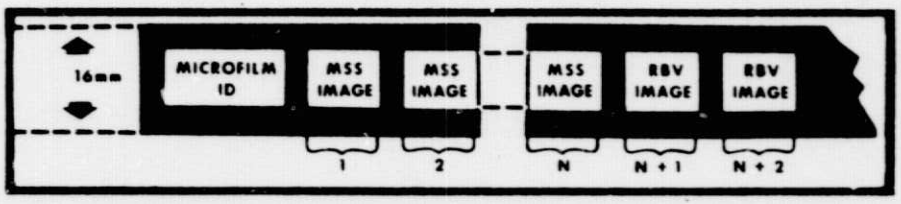


Figure 2-1. Microfilm Format

Microfilm roll numbers contain six digits. The first digit designates the satellite number (blank or 1- = LANDSAT 1, 2- = LANDSAT 2). Example: Roll number 10032 and roll number 1-10034 are both LANDSAT 1 rolls. Roll 2-10032 is a LANDSAT 2 roll. The second digit will be a 1 (for U.S. rolls) or a 2 (for Non-U.S. rolls). The remaining digits are used to number sequentially all microfilm rolls prepared within each group. Example: Roll number 10001 is the first U.S. roll of microfilm produced for LANDSAT 1. Roll number 20004 is the fourth Non-U.S. roll to be produced for LANDSAT 1. The first U.S. roll of microfilm for LANDSAT 2 is number 2-10001.

The microfilm contains two rapid search capabilities to help the user quickly reach the desired scene. They are:

- Code Line Indexing
- Blip Encoding

2.2 CODE LINE INDEXING

The Landsat microfilm images have been annotated with visual code lines to the right of each frame. The visual code lines graduate up the edge of the screen as the film advances and allow the user to advance rapidly to within 20 frames of his desired image. See Figure 2-2.

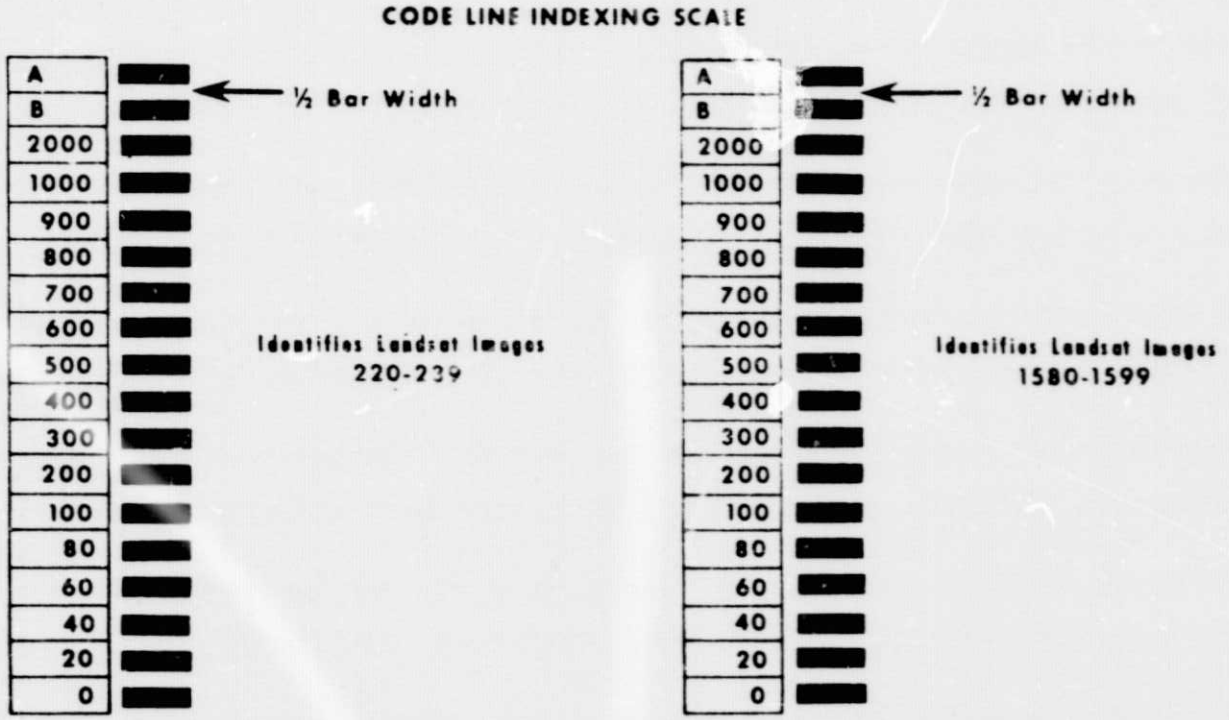


Figure 2-2. Code Line Indexing Scale

To utilize this system, a user must generate a code line indexing bar scale to attach to the face of his viewers. The size and spacing for the bar scale is dependent upon the magnification of his viewer. Landsat imagery is microfilmed at a reduction ratio of 8.5x. To determine the overall length of a scale required for your microfilm reader, multiply 7.4 mm by the enlargement factor of your lens. To determine the bar widths along the bar scale, Multiply 0.24 mm by the same factor. A space between each bar should exist that is 1/2 the bar width.

SECTION 3 — CYCLE CHARTS

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 8 days	1	8	24 Jul 72	31 Jul 72	16	279	296	28 Apr 73	15 May 73
1	9	26	1 Aug 72	18 Aug 72	17	297	314	16 May 73	2 Jun 73
2	27	44	19 Aug 72	5 Sep 72	18	315	332	3 Jun 73	20 Jun 73
3	45	62	6 Sep 72	23 Sep 72	19	333	350	21 Jun 73	8 Jul 73
4	63	80	24 Sep 72	11 Oct 72	20	351	368	9 Jul 73	26 Jul 73
5	81	98	12 Oct 72	29 Oct 72	21	369	386	27 Jul 73	13 Aug 73
6	99	116	30 Oct 72	16 Nov 72	22	387	404	14 Aug 73	31 Aug 73
7	117	134	17 Nov 72	4 Dec 72	23	405	422	1 Sep 73	18 Sep 73
8	135	152	5 Dec 72	22 Dec 72	24	423	440	19 Sep 73	6 Oct 73
9	153	170	23 Dec 72	9 Jan 73	25	441	458	7 Oct 73	24 Oct 73
10	171	188	10 Jan 73	27 Jan 73	26	459	476	25 Oct 73	11 Nov 73
11	189	206	28 Jan 73	14 Feb 73	27	477	494	12 Nov 73	29 Nov 73
12	207	224	15 Feb 73	4 Mar 73	28	495	512	30 Nov 73	17 Dec 73
13	225	242	5 Mar 73	22 Mar 73	29	513	530	18 Dec 73	4 Jan 74
14	243	260	23 Mar 73	9 Apr 73	30	531	548	5 Jan 74	22 Jan 74
15	261	278	10 Apr 73	27 Apr 73	31	549	566	23 Jan 74	9 Feb 74

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
32	567	584	10 Feb 74	27 Feb 74	48	855	872	25 Nov 74	12 Dec 74
33	585	602	28 Feb 74	17 Mar 74	49	873	890	13 Dec 74	30 Dec 74
34	603	620	18 Mar 74	4 Apr 74	50	891	908	31 Dec 74	17 Jan 75
35	621	638	5 Apr 74	22 Apr 74	51	909	926	18 Jan 75	4 Feb 75
36	639	656	23 Apr 74	11 May 74	52	927	944	5 Feb 75	22 Feb 75
37	657	674	12 May 74	28 May 74	53	945	962	23 Feb 75	12 Mar 75
38	675	692	29 May 74	15 Jun 74	54	963	980	13 Mar 75	30 Mar 75
39	693	710	16 Jun 74	3 Jul 74	55	981	998	31 Mar 75	17 Apr 75
40	711	728	4 Jul 74	21 Jul 74	56	999	1016	18 Apr 75	5 May 75
41	729	746	22 Jul 74	8 Aug 74	57	1017	1034	6 May 75	23 May 75
42	747	764	9 Aug 74	26 Aug 74	58	1035	1052	24 May 75	10 Jun 75
43	765	782	27 Aug 74	13 Sep 74	59	1053	1070	11 Jun 75	28 Jun 75
44	783	800	14 Sep 74	1 Oct 74	60	1071	1088	29 Jun 75	16 Jul 75
45	801	818	2 Oct 74	19 Oct 74	61	1089	1106	17 Jul 75	3 Aug 75
46	819	836	20 Oct 74	6 Nov 74	62	1107	1124	4 Aug 75	21 Aug 75
47	837	854	7 Nov 74	24 Nov 74	63	1125	1142	22 Aug 75	8 Sep 75

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
64	1143	1160	9 Sep 75	26 Sep 75	80	1431	1448	23 Jun 76	10 Jul 76
65	1161	1178	27 Sep 75	14 Oct 75	81	1449	1466	11 Jul 76	28 Jul 76
66	1179	1196	15 Oct 75	1 Nov 75	82	1467	1484	29 Jul 76	15 Aug 76
67	1197	1214	2 Nov 75	19 Nov 75	83	1485	1502	16 Aug 76	2 Sep 76
68	1215	1232	20 Nov 75	7 Dec 75	84	1503	1520	3 Sep 76	20 Sep 76
69	1233	1250	8 Dec 75	25 Dec 75	85	1521	1538	21 Sep 76	8 Oct 76
70	1251	1268	26 Dec 75	12 Jan 76	86	1539	1556	9 Oct 76	26 Oct 76
71	1269	1286	13 Jan 76	30 Jan 76	87	1557	1574	27 Oct 76	13 Nov 76
72	1287	1304	31 Jan 76	17 Feb 76	88	1575	1592	14 Nov 76	1 Dec 76
73	1305	11322	18 Feb 76	6 Mar 76	89	1593	1610	2 Dec 76	19 Dec 76
74	1323	1340	7 Mar 76	24 Mar 76	90	1611	1628	20 Dec 76	6 Jan 77
75	1341	1358	25 Mar 76	11 Apr 76	91	1629	1646	7 Jan 77	24 Jan 77
76	1359	1376	12 Apr 76	29 Apr 76	92	1647	1664	25 Jan 77	11 Feb 77
77	1377	1394	30 Apr 76	17 May 76	93	1665	1682	12 Feb 77	1 Mar 77
78	1395	1412	18 May 76	4 Jun 76	94	1683	1700	2 Mar 77	19 Mar 77
79	1413	1430	5 Jun 76	22 Jun 76	95	1701	1718	20 Mar 77	6 Apr 77

SECTION 3.2 — LANDSAT 2 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 22 days	1	22	22 Jan 75	13 Feb 75	19	347	364	4 Jan 76	21 Jan 76
1	23	40	14 Feb 75	3 Mar 75	20	365	382	22 Jan 76	8 Feb 76
2	41	58	4 Mar 75	21 Mar 75	21	383	400	9 Feb 76	26 Feb 76
3	59	76	22 Mar 75	8 Apr 75	22	401	418	27 Feb 76	15 Mar 76
4	77	94	9 Apr 75	26 Apr 75	23	419	436	16 Mar 76	2 Apr 76
5	95	112	27 Apr 75	14 May 75	24	437	454	3 Apr 76	20 Apr 76
6	113	130	15 May 75	1 Jun 75	25	455	472	21 Apr 76	8 May 76
7	131	148	2 Jun 75	19 Jun 75	26	473	490	9 May 76	26 May 76
8	149	188	20 Jun 75	7 Jul 75	27	491	508	27 May 76	13 Jun 76
9	167	184	8 Jul 75	25 Jul 75	28	509	526	14 Jun 76	1 Jul 76
10	185	202	26 Jul 75	12 Aug 75	29	527	544	2 Jul 76	19 Jul 76
11	203	220	13 Aug 75	30 Aug 75	30	545	562	20 Jul 76	6 Aug 76
12	221	238	31 Aug 75	17 Sep 75	31	563	580	7 Aug 76	24 Aug 76
13	239	256	18 Sep 75	5 Oct 75	32	581	598	25 Aug 76	11 Sep 76
14	257	274	6 Oct 75	23 Oct 75	33	599	616	12 Sep 76	29 Sep 76
15	275	292	24 Oct 75	10 Nov 75	34	617	634	30 Sep 76	17 Oct 76
16	293	310	11 Nov 75	28 Nov 75	35	635	652	18 Oct 76	4 Nov 76
17	311	328	29 Nov 75	16 Dec 75	36	653	670	5 Nov 76	22 Nov 76
18	329	346	17 Dec 75	3 Jan 76	37	671	688	23 Nov 76	10 Dec 76

SECTION 4

LANDSAT 1 COVERAGE

NO LANDSAT 1 DATA HAS BEEN ACQUIRED DURING NOVEMBER.

SECTION 5

LANDSAT 2 COVERAGE

LANDSAT 2
OBSERVATION ID LISTING

LANDSAT-2
OBSERVATION ID LISTING
FOR NAN-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2641-01514	00000/0000	2-20035/0001	10/24/76	10	8929	3845N	11929E	32.9	146.1		FFFG		
2641-01521	00000/0000	2-20035/0068	10/24/76	30	8929	3720N	11900E	33.9	145.2		GGGG		
2641-01523	00000/0000	2-20035/0109	10/24/76	20	8929	3554N	11833E	34.9	144.3		GGGG		
2641-01530	00000/0000	2-20035/0110	10/24/76	30	8929	3429N	11806E	35.9	143.3		FGGG		
2641-01532	00000/0000	2-20035/0111	10/24/76	60	8929	3303N	11740E	36.9	142.3		GGGG		
2641-01535	00000/0000	2-20035/0112	10/24/76	90	8929	3137N	11714E	37.8	141.3		GGGG		
2641-01541	00000/0000	2-20035/0113	10/24/76	90	8929	3011N	11650E	38.8	140.3		GGGG		
2642-07015	00000/0000	2-20035/0114	10/25/76	80	8946	5707N	04848E	18.4	157.6		GGGG		
2642-07021	00000/0000	2-20035/0115	10/25/76	70	8946	5544N	04758E	19.5	156.7		GGGG		
2642-07024	00000/0000	2-20035/0116	10/25/76	70	8946	5420N	04710E	20.7	155.8		GGGG		
2642-07030	00000/0000	2-20035/0148	10/25/76	90	8946	5256N	04625E	21.8	154.9		GGGG		
2642-07033	00000/0000	2-20035/0149	10/25/76	90	8946	5132N	04543E	22.9	154.0		GGGG		
2642-07035	00000/0000	2-20035/0150	10/25/76	100	8946	5007N	04502E	24.0	153.2		GGGG		
2642-07042	00000/0000	2-20035/0151	10/25/76	90	8946	4843N	04424E	25.1	152.3		GGGG		
2642-07044	00000/0000	2-20035/0152	10/25/76	90	8946	4718N	04348E	26.2	151.5		GGGG		
2642-07051	00000/0000	2-20035/0153	10/25/76	100	8946	4553N	04314E	27.2	150.7		GGGG		
2642-07053	00000/0000	2-20035/0154	10/25/76	90	8946	4428N	04241E	28.3	149.8		GGGG		
2642-07060	00000/0000	2-20035/0155	10/25/76	90	8946	4304N	04209E	29.4	149.0		GGGG		
2642-07062	00000/0000	2-20035/0156	10/25/76	90	8946	4139N	04137E	30.4	148.1		GGGG		
2642-08441	00000/0000	2-20035/0157	10/25/76	60	8947	5953N	02449E	16.1	159.6		GGGG		
2642-08444	00000/0000	2-20035/0158	10/25/76	60	8947	5830N	02352E	17.3	158.6		GGGG		
2642-08450	00000/0000	2-20035/0159	10/25/76	10	8947	5707N	02258E	18.4	157.6		GGGG		
2642-08453	00000/0000	2-20035/0160	10/25/76	30	8947	5543N	02207E	19.5	156.7		GGGG		
2642-08455	00000/0000	2-20035/0161	10/25/76	30	8947	5420N	02120E	20.6	155.8		GGGG		
2642-12340	00000/0000	2-20035/0138	10/25/76	90	8949	2006S	05142W	51.7	84.3		GGGG		
2642-12343	00000/0000	2-20035/0139	10/25/76	80	8949	2131S	05204W	51.3	82.6		FFFF		
2642-12354	00000/0000	2-20035/0140	10/25/76	90	8949	2549S	05311W	49.8	78.0		GGGG		
2642-12361	00000/0000	2-20035/0141	10/25/76	100	8949	2715S	05335W	49.3	76.5		GGGG		
2642-12363	00000/0000	2-20035/0142	10/25/76	70	8949	2840S	05358W	48.7	75.1		GGGG		
2642-12370	00000/0000	2-20035/0143	10/25/76	50	8949	3006S	05423W	48.0	73.8		GGGG		
2642-22554	00000/0000	2-20035/0144	10/25/76	60	8955	2716S	15131E	49.4	76.7		GGGG		
2642-22563	00000/0000	2-20035/0145	10/25/76	90	8955	3006S	15044E	48.1	74.0		GGGG		
2642-22570	00000/0000	2-20035/0146	10/25/76	100	8955	3132S	15019E	47.5	72.7		GGGG		
2642-22572	00000/0000	2-20035/0147	10/25/76	100	8955	3257S	14954E	46.8	71.5		GGGG		
2643-02015	00000/0000	2-20035/0117	10/26/76	0	8957	4301N	11806E	29.2	149.1		GGGG		
2643-02022	00000/0000	2-20035/0162	10/26/76	0	8957	4136N	11735E	30.2	148.2		G		

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
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MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2643-02024	00000/0000	2-20035/0163	10/26/76	0	8957	4011N	11705E	31.2	147.4		GPGG		
2643-02031	00000/0000	2-20035/0164	10/26/76	0	8957	3846N	11636E	32.3	146.5		FGGG		
2643-02033	00000/0000	2-20035/0165	10/26/76	0	8957	3721N	11609E	33.3	145.6		FGGG		
2643-02040	00000/0000	2-20035/0166	10/26/76	0	8957	3555N	11542E	34.3	144.7		GGGG		
2643-02042	00000/0000	2-20035/0167	10/26/76	0	8957	3429N	11515E	35.3	143.8		GGGG		
2643-02045	00000/0000	2-20035/0168	10/26/76	0	8957	3303N	11450E	36.3	142.8		GGGG		
2643-02051	00000/0000	2-20035/0169	10/26/76	20	8957	3138N	11424E	37.3	141.8		GGGG		
2643-02054	00000/0000	2-20035/0170	10/26/76	60	8957	3012N	11400E	38.2	140.8		GGGG		
2643-02060	00000/0000	2-20035/0171	10/26/76	80	8957	2846N	11335E	39.1	139.8		GGGG		
2643-02063	00000/0000	2-20035/0172	10/26/76	90	8957	2721N	11312E	40.1	138.7		GGGG		
2643-02065	00000/0000	2-20035/0173	10/26/76	90	8957	2555N	11249E	41.0	137.6		FGGG		
2643-02072	00000/0000	2-20035/0174	10/26/76	100	8957	2428N	11226E	41.8	136.5		FGGG		
2643-02074	00000/0000	2-20035/0175	10/26/76	100	8957	2302N	11203E	42.7	135.3		GGGG		
2643-02081	00000/0000	2-20035/0176	10/26/76	80	8957	2136N	11141E	43.5	134.1		FGGG		
2643-03451	00000/0000	2-20035/0177	10/26/76	50	8958	4301N	09216E	29.1	149.1		GGGG		
2643-03501	00000/0000	2-20035/0178	10/26/76	20	8958	2552N	08656E	40.9	137.6		FGGG		
2643-03510	00000/0000	2-20035/0179	10/26/76	10	8958	2301N	08611E	42.7	135.3		GGGG		
2643-03512	00000/0000	2-20035/0180	10/26/76	10	8958	2135N	08549E	43.5	134.1		GGGG		
2643-03515	00000/0000	2-20035/0181	10/26/76	10	8958	2008N	08528E	44.3	132.8		GGGG		
2643-05291	00000/0000	2-20035/0118	10/26/76	20	8959	4013N	06529E	31.2	147.4		GGGG		
2643-05294	00000/0000	2-20035/0119	10/26/76	0	8959	3848N	06459E	32.2	146.6		GGGG		
2643-05314	00000/0000	2-20035/0120	10/26/76	0	8959	3140N	06246E	37.2	141.9		GGGG		
2643-05323	00000/0000	2-20035/0121	10/26/76	0	8959	2848N	06157E	39.1	139.9		GGFG		
2643-05330	00000/0000	2-20035/0122	10/26/76	30	8959	2723N	06133E	40.0	138.8		GGGG		
2643-05332	00000/0000	2-20035/0123	10/26/76	10	8959	2557N	06110E	40.9	137.7		GGGG		
2643-07073	00000/0000	2-20035/0069	10/26/76	100	8960	5707N	04722E	18.1	157.7		GFGG		
2643-07075	00000/0000	2-20035/0124	10/26/76	100	8960	5544N	04632E	19.2	156.8		GGGG		
2643-07082	00000/0000	2-20035/0125	10/26/76	90	8960	5420N	04545E	20.3	155.9		GGGG		
2643-07084	00000/0000	2-20035/0126	10/26/76	100	8960	5256N	04501E	21.4	155.0		GGGG		
2643-07091	00000/0000	2-20035/0127	10/26/76	90	8960	5132N	04418E	22.6	154.2		GGGG		
2643-07093	00000/0000	2-20035/0128	10/26/76	90	8960	5008N	04338E	23.7	153.3		GGGG		
2643-07100	00000/0000	2-20035/0129	10/26/76	70	8960	4844N	04300E	24.8	152.5		GGGG		
2643-07102	00000/0000	2-20035/0130	10/26/76	20	8960	4719N	04222E	25.8	151.6		GGGG		
2643-07105	00000/0000	2-20035/0131	10/26/76	60	8960	4554N	04147E	26.9	150.8		GGGG		
2643-07111	00000/0000	2-20035/0132	10/26/76	80	8960	4429N	04114E	28.0	150.0		GGGG		
2643-07214	00000/0000	2-20035/0133	10/26/76	40	8960	0842N	03106E	49.8	121.3		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	SKBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2643-07220	00000/0000	2-20035/0134	10/26/76	30	8960	0716N	03046E	50.3	119.7		GGGG		
2643-07223	00000/0000	2-20035/0135	10/26/76	30	8960	0550N	03025E	50.8	118.0		GGGG		
2643-07293	00000/0000	2-20035/0136	10/26/76	10	8960	1836S	02440E	52.2	86.5		GGGG		
2643-07300	00000/0000	2-20035/0137	10/26/76	10	8960	2002S	02419E	51.8	84.8		GGFG		
2643-08513	00000/0000	2-20035/0070	10/26/76	10	8961	5419N	01954E	20.3	155.9		FGGG		
2643-12392	00000/0000	2-20035/0071	10/26/76	80	8963	1840S	05247W	52.2	86.6		GFGG		
2643-12395	00000/0000	2-20035/0072	10/26/76	60	8963	2006S	05308W	51.8	84.8		GPPP		
2643-12401	00000/0000	2-20035/0073	10/26/76	60	8963	2132S	05330W	51.4	83.2		FFFF		
2643-12404	00000/0000	2-20035/0074	10/26/76	90	8963	2258S	05352W	51.0	81.5		FFFF		
2643-12410	00000/0000	2-20035/0075	10/26/76	80	8963	2424S	05415W	50.5	80.0		GGGG		
2643-12413	00000/0000	2-20035/0076	10/26/76	30	8963	2551S	05438W	50.0	78.4		F		
2643-12422	00000/0000	2-20035/0077	10/26/76	50	8963	2841S	05525W	48.9	75.6		GGGG		
2643-12424	00000/0000	2-20035/0078	10/26/76	80	8963	3006S	05550W	48.2	74.2		GGGG		
2643-12445	00000/0000	2-20035/0079	10/26/76	70	8963	3714S	05759W	44.7	68.5		GGGG		
2643-12451	00000/0000	2-20035/0080	10/26/76	50	8963	3838S	05827W	43.9	67.5		GGGG		
2643-23004	00000/0000	2-20035/0002	10/26/76	90	8969	2423S	15051E	50.6	80.2		GGGG		
2643-23010	00000/0000	2-20035/0003	10/26/76	90	8969	2549S	15028E	50.1	78.7		GGGG		
2643-23013	00000/0000	2-20035/0004	10/26/76	40	8969	2715S	15005E	49.5	77.2		GGGG		
2643-23015	00000/0000	2-20035/0005	10/26/76	40	8969	2841S	14942E	48.9	75.8		GGGG		
2643-23022	00000/0000	2-20035/0006	10/26/76	30	8969	3006S	14917E	48.3	74.4		FGFF		
2643-23024	00000/0000	2-20035/0007	10/26/76	50	8969	3132S	14853E	47.7	73.1		FGGG		
2643-23031	00000/0000	2-20035/0008	10/26/76	70	8969	3258S	14828E	47.0	71.9		GGGG		
2643-23033	00000/0000	2-20035/0009	10/26/76	40	8969	3423S	14803E	46.3	70.8		GGGG		
2643-23040	00000/0000	2-20035/0010	10/26/76	30	8969	3547S	14736E	45.5	69.7		GGGG		
2644-00462	00000/0000	2-20035/0011	10/27/76	50	8970	3257S	12238E	47.0	71.9		GGGG		
2644-02073	00000/0000	2-20035/0012	10/27/76	100	8971	4301N	11640E	28.8	149.3		GGGF		
2644-02080	00000/0000	2-20035/0013	10/27/76	100	8971	4136N	11609E	29.9	148.4		GGGG		
2644-02091	00000/0000	2-20035/0014	10/27/76	80	8971	3722N	11442E	33.0	145.8		GGGG		
2644-02094	00000/0000	2-20035/0015	10/27/76	90	8971	3556N	11415E	34.0	144.9		GGGG		
2644-02100	00000/0000	2-20035/0016	10/27/76	60	8971	3430N	11348E	35.0	144.0		GGGG		
2644-02103	00000/0000	2-20035/0017	10/27/76	40	8971	3304N	11323E	36.0	143.1		GGGG		
2644-02105	00000/0000	2-20035/0018	10/27/76	60	8971	3139N	11258E	37.0	142.1		GGGG		
2644-02112	00000/0000	2-20035/0019	10/27/76	100	8971	3013N	11233E	37.9	141.1		GGGG		
2644-02114	00000/0000	2-20035/0020	10/27/76	100	8971	2846N	11208E	38.9	140.1		GGGG		
2644-02121	00000/0000	2-20035/0021	10/27/76	90	8971	2720N	11144E	39.8	139.0		GGGG		
2644-02123	00000/0000	2-20035/0022	10/27/76	90	8971	2554N	11121E	40.7	137.9		GGGG		

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MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT-2
OBSERVATION ID LISTING
FOR NAN-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2644-02130	00000/0000	2-20035/0023	10/27/76	90	8971	2428N	11058E	41.6	136.8		GGGG		
2644-02132	00000/0000	2-20035/0024	10/27/76	90	8971	2302N	11035E	42.5	135.6		GGGG		
2644-02135	00000/0000	2-20035/0025	10/27/76	60	8971	2136N	11013E	43.3	134.4		GGGG		
2644-02141	00000/0000	2-20035/0026	10/27/76	70	8971	2010N	10951E	44.1	133.2		GGGG		
2644-03570	00000/0000	2-20035/0182	10/27/76	0	8972	2135N	08425E	43.3	134.4		GGGG		
2644-03573	00000/0000	2-20035/0183	10/27/76	10	8972	2009N	08403E	44.1	133.2		GGGG		
2644-05350	00000/0000	2-20035/0208	10/27/76	70	8973	4010N	06401E	30.9	147.6		GGGG		
2644-05352	00000/0000	2-20035/0209	10/27/76	50	8973	3845N	06332E	31.9	146.7		GGGG		
2644-05355	00000/0000	2-20035/0210	10/27/76	30	8973	3719N	06303E	33.0	145.8		GGGG		
2644-05361	00000/0000	2-20035/0081	10/27/76	60	8973	3553N	06236E	34.0	144.9		GGGG		
2644-05364	00000/0000	2-20035/0082	10/27/76	50	8973	3428N	06209E	35.0	144.0		GGGG		
2644-05370	00000/0000	2-20035/0083	10/27/76	60	8973	3302N	06143E	36.0	143.1		GGGG		
2644-05373	00000/0000	2-20035/0084	10/27/76	40	8973	3136N	06118E	36.9	142.1		GGGG		
2644-05375	00000/0000	2-20035/0085	10/27/76	20	8973	3010N	06053E	37.9	141.1		FGGG		
2644-05382	00000/0000	2-20035/0086	10/27/76	0	8973	2845N	06029E	38.8	140.1		GGGG		
2644-05384	00000/0000	2-20035/0087	10/27/76	0	8973	2719N	06005E	39.8	139.0		GGGG		
2644-05391	00000/0000	2-20035/0056	10/27/76	10	8973	2553N	05942E	40.7	137.9		FFGG		
2644-07134	00000/0000	2-20035/0057	10/27/76	100	8974	5544N	04505E	18.9	156.9		GGGG		
2644-07140	00000/0000	2-20035/0058	10/27/76	90	8974	5421N	04417E	20.0	156.0		GGGG		
2644-07143	00000/0000	2-20035/0059	10/27/76	90	8974	5256N	04333E	21.1	155.1		GGGG		
2644-07145	00000/0000	2-20035/0060	10/27/76	100	8974	5132N	04250E	22.2	154.3		GGGG		
2644-07152	00000/0000	2-20035/0061	10/27/76	100	8974	5007N	04211E	23.3	153.4		GGGG		
2644-07154	00000/0000	2-20035/0062	10/27/76	50	8974	4843N	04132E	24.4	152.6		GGGG		
2644-07161	00000/0000	2-20035/0063	10/27/76	10	8974	4717N	04055E	25.5	151.8		GGGG		
2644-07163	00000/0000	2-20035/0064	10/27/76	20	8974	4552N	04020E	26.6	151.0		GGGG		
2644-07170	00000/0000	2-20035/0065	10/27/76	50	8974	4428N	03947E	27.7	150.1		GGGG		
2644-07352	00000/0000	2-20035/0066	10/27/76	10	8974	1837S	02314E	52.2	87.0		GGGG		
2644-07354	00000/0000	2-20035/0067	10/27/76	0	8974	2003S	02252E	51.9	85.3		FFFF		
2644-12480	00000/0000	2-20035/0088	10/27/76	50	8977	2841S	05650W	49.0	76.0		GGGG		
2644-12482	00000/0000	2-20035/0089	10/27/76	50	8977	3007S	05714W	48.4	74.7		GGGG		
2644-12491	00000/0000	2-20035/0027	10/27/76	90	8977	3258S	05803W	47.1	72.1		GGGG		
2644-12494	00000/0000	2-20035/0028	10/27/76	80	8977	3423S	05829W	46.4	71.0		FFFF		
2644-12500	00000/0000	2-20035/0029	10/27/76	60	8977	3549S	05855W	45.7	69.9		PGGG		
2644-12505	00000/0000	2-20035/0030	10/27/76	90	8977	3838S	05951W	44.1	67.9		GGGG		
2644-14061	00000/0000	2-20035/0263	10/27/76	90	8978	5706N	05721W	17.7	157.8		GGGG		
2644-14064	00000/0000	2-20035/0264	10/27/76	90	8978	5542N	05811W	18.8	156.9		GGGG		

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2644-14070	00000/0000	2-20035/0265	10/27/76	100	8978	5418N	05858W	19.9	156.0		GGFG		
2644-14073	00000/0000	2-20035/0266	10/27/76	100	8978	5254N	05943W	21.1	155.1		FGFG		
2644-14075	00000/0000	2-20035/0267	10/27/76	90	8978	5130N	06025W	22.2	154.3		GGGG		
2644-14082	00000/0000	2-20035/0268	10/27/76	30	8978	5006N	06105W	23.3	153.4		GGGG		
2644-14084	00000/0000	2-20035/0269	10/27/76	50	8978	4842N	06143W	24.4	152.6		GGGG		
2644-14091	00000/0000	2-20035/0270	10/27/76	80	8978	4717N	06220W	25.5	151.8		GGGG		
2644-14093	00000/0000	2-20035/0271	10/27/76	80	8978	4552N	06255W	26.5	151.0		GGGG		
2644-14100	00000/0000	2-20035/0272	10/27/76	70	8978	4427N	06328W	27.6	150.2		GGGG		
2644-14102	00000/0000	2-20035/0273	10/27/76	80	8978	4302N	06401W	28.7	149.3		GGGG		
2644-14105	00000/0000	2-20035/0274	10/27/76	60	8978	4137N	06432W	29.7	148.5		GGGG		
2644-15514	00000/0000	2-20035/0275	10/27/76	20	8979	5006N	08655W	23.2	153.5		GGGG		
2644-17343	00000/0000	2-20035/0283	10/27/76	80	8980	5129N	11205W	22.1	154.3		GGGG		
2644-23064	00000/0000	2-20035/0031	10/27/76	40	8983	2549S	14903E	50.2	79.1		GGGG		
2644-23071	00000/0000	2-20035/0032	10/27/76	10	8983	2714S	14840E	49.7	77.6		GGGG		
2644-23073	00000/0000	2-20035/0033	10/27/76	0	8983	2841S	14816E	49.1	76.2		GGGG		
2644-23082	00000/0000	2-20035/0034	10/27/76	10	8983	3132S	14727E	47.9	73.6		GGGG		
2644-23085	00000/0000	2-20035/0035	10/27/76	10	8983	3257S	14702E	47.2	72.3		GGGG		
2644-23091	00000/0000	2-20035/0036	10/27/76	10	8983	3422S	14636E	46.5	71.2		GGGG		
2644-23094	00000/0000	2-20035/0037	10/27/76	10	8983	3547S	14609E	45.8	70.0		GGGG		
2644-23100	00000/0000	2-20035/0038	10/27/76	40	8983	3712S	14542E	45.0	69.0		GGGG		
2645-00514	00000/0000	2-20035/0039	10/28/76	40	8984	3133S	12137E	47.9	73.6		GGGG		
2645-00520	00000/0000	2-20035/0040	10/28/76	40	8984	3258S	12113E	47.2	72.3		GFGG		
2645-02134	00000/0000	2-20035/0041	10/28/76	10	8985	4136N	11444E	29.6	148.6		GGGG		
2645-02141	00000/0000	2-20035/0042	10/28/76	10	8985	4011N	11414E	30.6	147.7		GGGG		
2645-02143	00000/0000	2-20035/0043	10/28/76	0	8985	3846N	11345E	31.7	146.9		GGGG		
2645-02150	00000/0000	2-20035/0044	10/28/76	0	8985	3720N	11317E	32.7	146.0		GGGG		
2645-02152	00000/0000	2-20035/0045	10/28/76	0	8985	3555N	11250E	33.7	145.1		FGGG		
2645-02155	00000/0000	2-20035/0046	10/28/76	0	8985	3430N	11224E	34.7	144.2		GGGG		
2645-02161	00000/0000	2-20035/0047	10/28/76	0	8985	3304N	11158E	35.7	143.3		GGGG		
2645-02164	00000/0000	2-20035/0048	10/28/76	0	8985	3137N	11132E	36.7	142.3		FGGG		
2645-02170	00000/0000	2-20035/0049	10/28/76	40	8985	3011N	11107E	37.7	141.3		GGGG		
2645-02173	00000/0000	2-20035/0050	10/28/76	90	8985	2845N	11042E	38.6	140.3		GGGG		
2645-02175	00000/0000	2-20035/0051	10/28/76	90	8985	2719N	11019E	39.5	139.3		GGGG		
2645-02182	00000/0000	2-20035/0052	10/28/76	90	8985	2553N	10956E	40.4	138.2		GGGG		
2645-02184	00000/0000	2-20035/0053	10/28/76	80	8985	2427N	10933E	41.3	137.1		GGGG		
2645-02191	00000/0000	2-20035/0054	10/28/76	90	8985	2302N	10911E	42.2	135.9		GGGG		

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2645-02193	00000/0000	2-20035/0055	10/28/76	80	8985	2137N	10849E	43.1	134.7		GGGG		
2645-03561	00000/0000	2-20035/0090	10/28/76	10	8986	4425N	08957E	27.4	150.2		GGGG		
2645-03563	00000/0000	2-20035/0091	10/28/76	0	8986	4300N	08924E	28.5	149.4		GGGG		
2645-0401[illegible]	00000/0000	2-20035/0092	10/28/76	0	8986	2720N	08429E	39.5	139.3		GGGG		
2645-04013	00000/0000	2-20035/0093	10/28/76	0	8986	2554N	08405E	40.4	138.2		GGGG		
2645-04020	00000/0000	2-20035/0094	10/28/76	0	8986	2429N	08343E	41.3	137.1		GGGG		
2645-04022	00000/0000	2-20035/0095	10/28/76	0	8986	2302N	08320E	42.2	136.0		GGGG		
2645-04025	00000/0000	2-20035/0096	10/28/76	0	8986	2135N	08258E	43.0	134.8		GGGG		
2645-04031	00000/0000	2-20035/0097	10/28/76	0	8986	2009N	08236E	43.9	133.5		GGGG		
2645-04034	00000/0000	2-20035/0098	10/28/76	0	8986	1843N	08215E	44.7	132.3		GGGG		
2645-05424	00000/0000	2-20035/0211	10/28/76	30	8987	3302N	06018E	35.7	143.3		GGGG		
2645-05431	00000/0000	2-20035/0212	10/28/76	10	8987	3136N	05952E	36.7	142.4		GGGG		
2645-05433	00000/0000	2-20035/0213	10/28/76	10	8987	3011N	05927E	37.6	141.4		GGGG		
2645-05440	00000/0000	2-20035/0214	10/28/76	0	8987	2845N	05903E	38.6	140.4		GGGG		
2645-05442	00000/0000	2-20035/0215	10/28/76	0	8987	2719N	05840E	39.5	139.3		GGGG		
2645-05445	00000/0000	2-20035/0216	10/28/76	10	8987	2553N	05817E	40.4	138.2		GGGG		
2645-07185	00000/0000	2-20035/0248	10/28/76	80	8988	5707N	04429E	17.4	157.9		GGGG		
2645-07192	00000/0000	2-20035/0099	10/28/76	70	8988	5544N	04338E	18.6	157.0		GGGG		
2645-07194	00000/0000	2-20035/0100	10/2 /76	80	8988	5420N	04251E	19.7	156.1		GGGG		
2645-07201	00000/0000	2-20035/0101	10/28/76	40	8988	5255N	04205E	20.8	155.2		GGGG		
2645-07203	00000/0000	2-20035/0102	10/28/76	20	8988	5131N	04123E	21.9	154.4		GGGG		
2645-07210	00000/0000	2-20035/0103	10/28/76	50	8988	5007N	04043E	23.0	153.6		GGGG		
2645-07212	00000/0000	2-20035/0104	10/28/76	100	8988	4843N	04005E	24.1	152.7		GGGG		
2645-07215	00000/0000	2-20035/0105	10/28/76	100	8988	4718N	03929E	25.2	151.9		GGGG		
2645-07221	00000/0000	2-20035/0106	10/28/76	90	8988	4553N	03854E	26.3	151.1		GGGG		
2645-07224	00000/0000	2-20035/0107	10/28/76	60	8988	4428N	03821E	27.4	150.3		GGGG		
2645-07412	00000/0000	2-20035/0108	10/28/76	30	8988	2003S	02127E	52.0	85.8		GGGG		
2645-12543	00000/0000	2-20035/0236	10/28/76	10	8991	3131S	05903W	48.0	73.8		FFGG		
2645-12552	00000/0000	2-20035/0237	10/28/76	60	8991	3422S	05955W	46.6	71.4		GGGG		
2645-12555	00000/0000	2-20035/0238	10/28/76	40	8991	3547S	06022W	45.9	70.2		GGGG		
2645-12561	00000/0000	2-20035/0239	10/28/76	10	8991	3713S	06049W	45.1	69.2		FFGG		
2645-12564	00000/0000	2-20035/0240	10/28/76	10	8991	3839S	06117W	44.3	68.2		FFGG		
2645-12570	00000/0000	2-20035/0241	10/28/76	0	8991	4004S	06146W	43.5	67.3		GGGG		
2645-14140	00000/0000	2-20035/0284	10/28/76	10	8992	5006N	06231W	23.0	153.6		GGGG		
2645-14143	00000/0000	2-20035/0285	10/28/76	40	8992	4841N	06309W	24.1	152.7		GGG		
2645-14152	00000/0000	2-20035/0286	10/28/76	20	8992	4552N	06420W	26.2	151.1		GGG		

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LANDSAT-2
OBSERVATION IX LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2645-14154	00000/0000	2-20035/0287	10/28/76	50	8992	4427N	06455W	27.3	150.3		GGGG		
2645-14161	00000/0000	2-20035/0288	10/28/76	60	8992	4301N	06528W	28.4	149.5		GGGG		
2645-14163	00000/0000	2-20035/0289	10/28/76	70	8992	4136N	06600W	29.4	148.7		GGGG		
2645-15572	00000/0000	2-20035/0290	10/28/76	40	8993	5005N	08823W	22.9	153.6		GGGG		
2645-23114	00000/0000	2-20035/0242	10/28/76	0	8997	2257S	14823E	51.3	82.8		GGGG		
2645-23120	00000/0000	2-20035/0243	10/28/76	0	8997	2422S	14800E	50.9	81.1		GGGG		
2645-23143	00000/0000	2-20035/0244	10/28/76	10	8997	3258S	14537E	47.4	72.7		GGGG		
2645-23150	00000/0000	2-20035/0245	10/28/76	10	8997	3423S	14512E	46.7	71.5		GGGG		
2645-23152	00000/0000	2-20035/0246	10/28/76	0	8997	3547S	14445E	46.0	70.4		GGGG		
2645-23155	00000/0000	2-20035/0247	10/28/76	20	8997	3712S	14417E	45.2	69.4		GGGG		
2646-00572	00000/0000	2-20035/0249	10/29/76	70	8998	3132S	12011E	48.1	74.0		GGGG		
2646-00575	00000/0000	2-20035/0250	10/29/76	70	8998	3257S	11946E	47.4	72.7		GGGG		
2646-00581	00000/0000	2-20035/0251	10/29/76	50	8998	3423S	11921E	46.7	71.6		GGGG		
2646-02192	00000/0000	2-20035/0252	10/29/76	10	8999	4136N	11317E	29.3	148.8		GGGG		
2646-02195	00000/0000	2-20035/0253	10/29/76	10	8999	4011N	11247E	30.3	147.9		GGGG		
2646-02201	00000/0000	2-20035/0254	10/29/76	0	8999	3846N	11218E	31.4	147.1		GGGG		
2646-02210	00000/0000	2-20035/0255	10/29/76	0	8999	3555N	11123E	33.4	145.3		GGGG		
2646-02213	00000/0000	2-20035/0256	10/29/76	0	8999	3429N	11056E	34.4	144.4		GGGG		
2646-02215	00000/0000	2-20035/0257	10/29/76	10	8999	3303N	11029E	35.4	143.5		GGGG		
2646-02233	00000/0000	2-20035/0258	10/29/76	30	8999	2720N	10852E	39.3	139.5		GGGG		
2646-02240	00000/0000	2-20035/0259	10/29/76	80	8999	2554N	10829E	40.2	138.5		GGGG		
2646-02242	00000/0000	2-20035/0260	10/29/76	100	8999	2428N	10806E	41.1	137.4		GGGG		
2646-02245	00000/0000	2-20035/0261	10/29/76	100	8999	2302N	10743E	42.0	136.2		GGGG		
2646-04015	00000/0000	2-20035/0217	10/29/76	20	9000	4426N	08832E	27.1	150.4		GGGG		
2646-04021	00000/0000	2-20035/0218	10/29/76	10	9000	4301N	08800E	28.2	149.6		GGGG		
2646-04024	00000/0000	2-20035/0219	10/29/76	0	9000	4137N	08728E	29.3	148.8		GGGG		
2646-04065	00000/0000	2-20035/0207	10/29/76	0	9000	2720N	08303E	39.2	139.6		G GG		
2646-04071	00000/0000	2-20035/0220	10/29/76	0	9000	2554N	08240E	40.2	138.5		GGGG		
2646-04074	00000/0000	2-20035/0221	10/29/76	0	9000	2428N	08217E	41.1	137.4		GGGG		
2646-04083	00000/0000	2-20035/0222	10/29/76	0	9000	2137N	08133E	42.8	135.1		GGGG		
2646-04085	00000/0000	2-20035/0223	10/29/76	0	9000	2011N	08111E	43.6	133.9		GGGG		
2646-04092	00000/0000	2-20035/0224	10/29/76	0	9000	1844N	08050E	44.4	132.6		GGG		
2646-05471	00000/0000	2-20035/0195	10/29/76	90	9001	3720N	06012E	32.4	146.2		GGGG		
2646-05473	00000/0000	2-20035/0196	10/29/76	70	9001	3554N	05945E	33.4	145.4		GGGG		
2646-05480	00000/0000	2-20035/0197	10/29/76	70	9001	3429N	05918E	34.4	144.5		GGGG		
2646-05482	00000/0000	2-20035/0198	10/29/76	80	9001	3303N	05852E	35.4	143.5		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2646-05485	00000/0000	2-20035/0199	10/29/76	80	9001	3137N	05826E	36.4	142.6		GGGG		
2646-05491	00000/0000	2-20035/0200	10/29/76	70	9001	3011N	05801E	37.3	141.6		GGGG		
2646-05494	00000/0000	2-20035/0201	10/29/76	20	9001	2845N	05737E	38.3	140.6		GGGG		
2646-05500	00000/0000	2-20035/0202	10/29/76	40	9001	2720N	05713E	39.2	139.6		GGGG		
2646-05503	00000/0000	2-20035/0225	10/29/76	10	9001	2554N	05650E	40.2	138.5		GGGG		
2646-07244	00000/0000	2-20035/0226	10/29/76	80	9002	5704N	04301E	17.1	157.9		GGGG		
2646-07250	00000/0000	2-20035/0227	10/29/76	90	9002	5541N	04211E	18.3	157.0		GGGG		
2646-07253	00000/0000	2-20035/0228	10/29/76	70	9002	5417N	04125E	19.4	156.1		GGGG		
2646-07255	00000/0000	2-20035/0229	10/29/76	30	9002	5254N	04041E	20.5	155.3		GGGG		
2646-07262	00000/0000	2-20035/0230	10/29/76	10	9002	5129N	03958E	21.6	154.5		GGGG		
2646-07264	00000/0000	2-20035/0231	10/29/76	10	9002	5004N	03918E	22.7	153.6		GGGG		
2646-07271	00000/0000	2-20035/0232	10/29/76	10	9002	4840N	03840E	23.8	152.8		GGGG		
2646-07273	00000/0000	2-20035/0233	10/29/76	10	9002	4716N	03803E	24.9	152.0		GGGG		
2646-07280	00000/0000	2-20035/0234	10/29/76	20	9002	4551N	03728E	26.0	151.2		GGGG		
2646-07282	00000/0000	2-20035/0235	10/29/76	10	9002	4426N	03655E	27.1	150.4		GGGG		
2646-12592	00000/0000	2-20035/0184	10/29/76	60	9005	2840S	05942W	49.4	76.9		FFFF		
2646-12595	00000/0000	2-20035/0185	10/29/76	40	9005	3006S	06007W	48.8	75.5		GGGG		
2646-13001	00000/0000	2-20035/0186	10/29/76	40	9005	3131S	06031W	48.2	74.2		FFFF		
2646-13004	00000/0000	2-20035/0187	10/29/76	50	9005	3257S	06057W	47.5	72.9		GGGG		
2646-13010	00000/0000	2-20035/0188	10/29/76	40	9005	3423S	06123W	46.8	71.7		GGGG		
2646-13022	00000/0000	2-20035/0189	10/29/76	90	9005	3838S	06245W	44.6	68.6		GGGG		
2646-13024	00000/0000	2-20035/0190	10/29/76	80	9005	4004S	06314W	43.8	67.6		FFFF		
2646-14192	00000/0000	2-20035/0276	10/29/76	90	9006	5130N	06319W	21.5	154.5		GGGG		
2646-14194	00000/0000	2-20035/0277	10/29/76	100	9006	5005N	06359W	22.6	153.7		GGGG		
2646-14201	00000/0000	2-20035/0278	10/29/76	90	9006	4841N	06436W	23.7	152.9		GGGG		
2646-14221	00000/0000	2-20035/0279	10/29/76	30	9006	4137N	06724W	29.1	148.8		GGGG		
2646-14224	00000/0000	2-20035/0280	10/29/76	50	9006	4011N	06755W	30.2	148.0		GGGG		
2646-14230	00000/0000	2-20035/0281	10/29/76	60	9006	3846N	06824W	31.2	147.2		GGGG		
2646-16030	00000/0000	2-20035/0282	10/29/76	90	9007	5006N	08948W	22.6	153.7		FGGG		
2646-16103	00000/0000	2-20035/0262	10/29/76	100	9007	2429N	09823W	40.9	137.5		GGGG		
2646-23172	00000/0000	2-20035/0191	10/29/76	60	9011	2257S	14653E	51.4	83.3		GGGG		
2646-23204	00000/0000	2-20035/0192	10/29/76	10	9011	3422S	14344E	46.9	71.9		GGGG		
2646-23210	00000/0000	2-20035/0193	10/29/76	0	9011	3548S	14317E	46.2	70.8		GGGG		
2646-23213	00000/0000	2-20035/0194	10/29/76	10	9011	3713S	14250E	45.4	69.7		GGGG		
2647-01024	00000/0000	2-20035/0203	10/30/76	30	9012	3007S	11909E	48.9	75.7		GGGG		
2647-01030	00000/0000	2-20035/0204	10/30/76	10	9012	3132S	11844E	48.3	74.4		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2647-01033	00000/0000	2-20035/0205	10/30/76	20	9012	3257S	11819E	47.6	73.1		GGGG		
2647-01035	00000/0000	2-20035/0206	10/30/76	50	9012	3423S	11753E	46.9	71.9		GGGG		
2647-02253	00000/0000	2-20035/0417	10/30/76	0	9013	4012N	11122E	30.0	148.1		GGGG		
2647-02255	00000/0000	2-20035/0418	10/30/76	0	9013	3847N	11052E	31.1	147.3		GGGG		
2647-02262	00000/0000	2-20035/0419	10/30/76	0	9013	3721N	11024E	32.1	146.4		GGGG		
2647-02264	00000/0000	2-20035/0291	10/30/76	0	9013	3555N	10957E	33.1	145.5		GGFG		
2647-02271	00000/0000	2-20035/0292	10/30/76	10	9013	3429N	10931E	34.2	144.6		FGGF		
2647-02273	00000/0000	2-20035/0293	10/30/76	20	9013	3303N	10905E	35.1	143.7		GFGG		
2647-02280	00000/0000	2-20035/0294	10/30/76	10	9013	3138N	10840E	36.1	142.8		GGGG		
2647-02282	00000/0000	2-20035/0295	10/30/76	60	9013	3012N	10815E	37.1	141.8		GGGG		
2647-02285	00000/0000	2-20035/0296	10/30/76	70	9013	2846N	10751E	38.1	140.8		GGGG		
2647-02291	00000/0000	2-20035/0297	10/30/76	90	9013	2720N	10727E	39.0	139.8		GGGG		
2647-02294	00000/0000	2-20035/0298	10/30/76	80	9013	2554N	10703E	39.9	138.8		GGGG		
2647-04073	00000/0000	2-20035/0299	10/30/76	10	9014	4426N	08707E	26.8	150.5		FGGG		
2647-04080	00000/0000	2-20035/0300	10/30/76	0	9014	4302N	08634E	27.9	149.7		GGGG		
2647-04082	00000/0000	2-20035/0301	10/30/76	0	9014	4137N	08603E	29.0	148.9		GGGG		
2647-04123	00000/0000	2-20035/0302	10/30/76	10	9014	2720N	08138E	39.0	139.8		GGGG		
2647-04130	00000/0000	2-20035/0303	10/30/76	0	9014	2554N	08115E	39.9	138.8		GGGG		
2647-04132	00000/0000	2-20035/0304	10/30/76	0	9014	2428N	08052E	40.8	137.7		FGGG		
2647-04135	00000/0000	2-20035/0305	10/30/76	0	9014	2302N	08030E	41.7	136.6		GFGG		
2647-04141	00000/0000	2-20035/0306	10/30/76	0	9014	2136N	08008E	42.6	135.4		GGGF		
2647-04144	00000/0000	2-20035/0307	10/30/76	0	9014	2009N	07946E	43.4	134.2		FGFG		
2647-04150	00000/0000	2-20035/0308	10/30/76	10	9014	1843N	07925E	44.2	133.0		GGGG		
2647-04153	00000/0000	2-20035/0309	10/30/76	10	9014	1717N	07903E	45.0	131.7		GGGG		
2647-04155	00000/0000	2-20035/0310	10/30/76	20	9014	1550N	07842E	45.8	130.3		GGGG		
2647-04173	00000/0000	2-20035/0311	10/30/76	10	9014	1006N	07719E	48.5	124.6		GGGG		
2647-05525	00000/0000	2-20035/0403	10/30/76	100	9015	3719N	05845E	32.1	146.4		GG		
2647-05552	00000/0000	2-20035/0404	10/30/76	20	9015	2846N	05611E	38.0	140.9		GGGG		
2647-07302	00000/0000	2-20035/0338	10/30/76	70	9016	5705N	04140E	16.8	158.0		GGGG		
2647-07304	00000/0000	2-20035/0339	10/30/76	70	9016	5542N	04049E	18.0	157.1		GGGF		
2647-07311	00000/0000	2-20035/0340	10/30/76	20	9016	5418N	04002E	19.1	156.2		GGGG		
2647-07313	00000/0000	2-20035/0341	10/30/76	10	9016	5254N	03916E	20.2	155.4		GGGG		
2647-07320	00000/0000	2-20035/0342	10/30/76	10	9016	5130N	03833E	21.3	154.6		GGGG		
2647-07322	00000/0000	2-20035/0343	10/30/76	0	9016	5005N	03752E	22.4	153.7		GGGG		
2647-07325	00000/0000	2-20035/0344	10/30/76	10	9016	4841N	03713E	23.5	152.9		FGGG		
2647-07331	00000/0000	2-20035/0324	10/30/76	0	9016	4716N	03636E	24.6	152.1		FGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2647-07334	00000/0000	2-20035/0325	10/30/76	0	9016	4551N	03601E	25.7	151.3		GFGF		
2647-07340	00000/0000	2-20035/0326	10/30/76	10	9016	4426N	03528E	26.8	150.6		FFFF		
2647-13050	00000/0000	2-20035/0327	10/30/76	40	9019	2840S	06108W	49.5	77.4		FFFF		
2647-13053	00000/0000	2-20035/0328	10/30/76	90	9019	3005S	06132W	49.0	76.0		GGGG		
2647-13055	00000/0000	2-20035/0329	10/30/76	90	9019	3130S	06157W	48.3	74.6		FFFF		
2647-13062	00000/0000	2-20035/0330	10/30/76	90	9019	3256S	06222W	47.7	73.3		GGGG		
2647-13064	00000/0000	2-20035/0331	10/30/76	100	9019	3422S	06248W	47.0	72.1		GGGG		
2647-13071	00000/0000	2-20035/0332	10/30/76	100	9019	3548S	06314W	46.3	71.0		FFFF		
2647-13073	00000/0000	2-20035/0333	10/30/76	100	9019	3713S	06342W	45.6	69.9		FFFF		
2647-13080	00000/0000	2-20035/0334	10/30/76	50	9019	3837S	06410W	44.8	68.9		GGGG		
2647-14253	00000/0000	2-20035/0313	10/30/76	40	9020	5007N	06524W	22.3	153.8		GGGG		
2647-14255	00000/0000	2-20035/0314	10/30/76	20	9020	4842N	06602W	23.4	153.0		GGGG		
2647-14285	00000/0000	2-20035/0315	10/30/76	10	9020	3846N	06951W	30.9	147.3		GGFG		
2647-14291	00000/0000	2-20035/0316	10/30/76	20	9020	3721N	07019W	32.0	146.5		GGGG		
2647-14294	00000/0000	2-20035/0317	10/30/76	20	9020	3555N	07046W	33.0	145.6		GGGG		
2647-14300	00000/0000	2-20035/0318	10/30/76	10	9020	3430N	07112W	34.0	144.7		GGGG		
2647-16082	00000/0000	2-20035/0319	10/30/76	10	9021	5129N	09034W	21.2	154.6		GGGG		
2647-16084	00000/0000	2-20035/0320	10/30/76	50	9021	5006N	09114W	22.3	153.8		GGGG		
2647-16161	00000/0000	2-20035/0312	10/30/76	10	9021	2429N	09951W	40.7	137.8		GGGG		
2647-23265	00000/0000	2-20035/0335	10/30/76	90	9025	3425S	14217E	47.1	75.3		GGGF		
2647-23264	00000/0000	2-20035/0336	10/30/76	90	9025	3547S	14151E	46.4	71.2		GGGG		
2647-23271	00000/0000	2-20035/0337	10/30/76	20	9025	3712S	14124E	45.6	70.1		FFFF		
2648-01082	00000/0000	2-20035/0345	10/31/76	40	9026	3006S	11745E	49.0	76.2		GGGG		
2648-01085	00000/0000	2-20035/0346	10/31/76	80	9026	3131S	11720E	48.4	74.8		GGGG		
2648-01091	00000/0000	2-20035/0347	10/31/76	60	9026	3256S	11655E	47.8	73.5		GGGG		
2648-02332	00000/0000	2-20035/0348	10/31/76	80	9027	3304N	10739E	34.9	143.9		GGGG		
2648-02334	00000/0000	2-20035/0349	10/31/76	90	9027	3138N	10714E	35.9	143.0		GGGG		
2648-02341	00000/0000	2-20035/0350	10/31/76	70	9027	3011N	10650E	36.8	142.1		GGGG		
2648-02343	00000/0000	2-20035/0351	10/31/76	30	9027	2846N	10626E	37.8	141.1		GGGG		
2648-02350	00000/0000	2-20035/0352	10/31/76	50	9027	2720N	10602E	38.7	140.1		GGGG		
2648-02352	00000/0000	2-20035/0353	10/31/76	60	9027	2554N	10539E	39.7	139.0		GGGG		
2648-04122	00000/0000	2-20035/0405	10/31/76	100	9028	4716N	08648E	24.3	152.3		GGGG		
2648-04125	00000/0000	2-20035/0406	10/31/76	100	9028	4551N	08613E	25.4	151.5		GGGG		
2648-04131	00000/0000	2-20035/0407	10/31/76	90	9028	4426N	08540E	26.5	150.7		GGGG		
2648-04181	00000/0000	2-20035/0408	10/31/76	0	9028	2720N	08011E	38.7	140.1		GGGG		
2648-04184	00000/0000	2-20035/0409	10/31/76	0	9028	2555N	07948E	39.6	139.0		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2648-04190	00000/0000	2-20035/0410	10/31/76	0	9028	2429N	07925E	40.6	138.0		GGGG		
2648-04193	00000/0000	2-20035/0411	10/31/76	0	9028	2303N	07903E	41.4	136.8		GGGG		
2648-04195	00000/0000	2-20035/0412	10/31/76	0	9028	2137N	07840E	42.3	135.7		GGGG		
2648-04202	00000/0000	2-20035/0413	10/31/76	0	9028	2010N	07819E	43.2	134.5		GGGG		
2648-04204	00000/0000	2-20035/0414	10/31/76	0	9028	1844N	07757E	44.0	133.3		GGGG		
2648-04211	00000/0000	2-20035/0415	10/31/76	0	9028	1717N	07736E	44.8	132.0		GGGG		
2648-04213	00000/0000	2-20035/0416	10/31/76	10	9028	1551N	07715E	45.5	130.7		GGGG		
2648-04220	00000/0000	2-20035/0370	10/31/76	10	9028	1425N	07654E	46.3	129.3		GGGG		
2648-04222	00000/0000	2-20035/0371	10/31/76	10	9028	1258N	07633E	47.0	127.9		GGGG		
2648-04225	00000/0000	2-20035/0372	10/31/76	20	9028	1132N	07613E	47.7	126.5		GGGG		
2648-07360	00000/0000	2-20035/0360	10/31/76	100	9030	5705N	04009E	16.5	158.1		GGGG		
2648-07362	00000/0000	2-20035/0361	10/31/76	100	9030	5541N	03919E	17.6	157.2		GGGF		
2648-07365	00000/0000	2-20035/0362	10/31/76	100	9030	5417N	03831E	18.8	156.3		GGGF		
2648-07371	00000/0000	2-20035/0363	10/31/76	90	9030	5254N	03747E	19.9	155.5		GGGG		
2648-07374	00000/0000	2-20035/0364	10/31/76	90	9030	5130N	03705E	21.0	154.7		GGFF		
2648-07380	00000/0000	2-20035/0365	10/31/76	90	9030	5006N	03626E	22.1	153.9		GGGF		
2648-07385	00000/0000	2-20035/0366	10/31/76	100	9030	4717N	03511E	24.3	152.3		FGGG		
2648-07392	00000/0000	2-20035/0367	10/31/76	90	9030	4552N	03436E	25.4	151.5		GGFG		
2648-07394	00000/0000	2-20035/0368	10/31/76	90	9030	4427N	03402E	26.5	150.7		GGGF		
2648-14304	00000/0000	2-20035/0354	10/31/76	80	9034	5131N	06612W	20.9	154.7		FGGG		
2648-14311	00000/0000	2-20035/0355	10/31/76	80	9034	5006N	06652W	22.0	153.9		GGGF		
2648-14313	00000/0000	2-20035/0356	10/31/76	80	9034	4842N	06730W	23.1	153.1		GGGG		
2648-14354	00000/0000	2-20035/0357	10/31/76	60	9034	3430N	07237W	33.7	144.9		GGGG		
2648-14361	00000/0000	2-20035/0358	10/31/76	70	9034	3305N	07303W	34.7	144.0		GGGG		
2648-14363	00000/0000	2-20035/0359	10/31/76	70	9034	3139N	07329W	35.7	143.1		GGGG		
2648-16142	00000/0000	2-20035/0369	10/31/76	40	9035	5005N	09240W	22.0	153.9		GGGG		
2648-23320	00000/0000	2-20035/0373	10/31/76	60	9039	3421S	14051E	47.3	72.7		GGGG		
2648-23323	00000/0000	2-20035/0374	10/31/76	80	9039	3546S	14025E	46.6	71.5		GGGG		
2649-01134	00000/0000	2-20035/0375	11/01/76	0	9040	2840S	11642E	49.8	78.0		GGGG		
2649-01140	00000/0000	2-20035/0376	11/01/76	0	9040	3006S	11618E	49.2	76.6		GGGG		
2649-01143	00000/0000	2-20035/0377	11/01/76	20	9040	3131S	11553E	48.6	75.2		GGGG		
2649-02383	00000/0000	2-20035/0378	11/01/76	70	9041	3430N	10638E	33.6	145.0		GGGG		
2649-02390	00000/0000	2-20035/0379	11/01/76	90	9041	3304N	10613E	34.6	144.1		GGGG		
2649-02392	00000/0000	2-20035/0380	11/01/76	100	9041	3138N	10548E	35.6	143.2		GGGG		
2649-02395	00000/0000	2-20035/0381	11/01/76	80	9041	3013N	10523E	36.6	142.3		GGGG		
2649-02401	00000/0000	2-20035/0382	11/01/76	80	9041	2847N	10458E	37.5	141.3		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2649-02404	00000/0000	2-20035/0383	11/01/76	60	9041	2720N	10435E	38.5	140.3		GGGG		
2649-02410	00000/0000	2-20035/0384	11/01/76	80	9041	2554N	10411E	39.4	139.3		GGGG		
2649-02413	00000/0000	2-20035/0385	11/01/76	90	9041	2428N	10349E	40.3	138.2		GGGG		
2649-02415	00000/0000	2-20035/0386	11/01/76	90	9041	2303N	10326E	41.2	137.1		GGGG		
2649-04180	00000/0000	2-20035/0387	11/01/76	40	9042	4716N	08522E	24.0	152.4		GGGG		
2649-04183	00000/0000	2-20035/0388	11/01/76	80	9042	4551N	08447E	25.1	151.6		GGGG		
2649-04185	00000/0000	2-20035/0389	11/01/76	80	9042	4427N	08413E	26.2	150.8		GGGG		
2649-04192	00000/0000	2-20035/0390	11/01/76	60	9042	4302N	08341E	27.3	150.0		GGGG		
2649-04194	00000/0000	2-20035/0391	11/01/76	70	9042	4137N	08309E	28.4	149.2		GGGG		
2649-04233	00000/0000	2-20035/0392	11/01/76	0	9042	2846N	07908E	37.5	141.3		PPGG		
2649-04235	00000/0000	2-20035/0393	11/01/76	0	9042	2720N	07844E	38.5	140.3		GGGG		
2649-04242	00000/0000	2-20035/0394	11/01/76	0	9042	2554N	07821E	39.4	139.3		GGGG		
2649-04244	00000/0000	2-20035/0395	11/01/76	0	9042	2428N	07758E	40.3	138.2		GGGG		
2649-04251	00000/0000	2-20035/0396	11/01/76	0	9042	2302N	07736E	41.2	137.1		FGGG		
2649-04253	00000/0000	2-20035/0397	11/01/76	0	9042	2136N	07714E	42.1	136.0		GGGG		
2649-04260	00000/0000	2-20035/0398	11/01/76	0	9042	2010N	07652E	42.9	134.8		GGGG		
2649-04262	00000/0000	2-20035/0399	11/01/76	0	9042	1844N	07630E	43.7	133.6		GGGG		
2649-04265	00000/0000	2-20035/0400	11/01/76	10	9042	1717N	07609E	44.6	132.3		GGGG		
2649-04271	00000/0000	2-20035/0401	11/01/76	10	9042	1551N	07548E	45.3	131.0		GGGG		
2649-04274	00000/0000	2-20035/0402	11/01/76	10	9042	1425N	07527E	46.1	129.7		GGGG		
2649-07414	00000/0000	2-20035/0451	11/01/76	100	9044	5704N	03842E	16.2	158.1		GGGG		
2649-07421	00000/0000	2-20035/0452	11/01/76	100	9044	5541N	03752E	17.3	157.3		GGGG		
2649-07423	00000/0000	2-20035/0453	11/01/76	100	9044	5417N	03706E	18.4	156.4		GGGG		
2649-07430	00000/0000	2-20035/0454	11/01/76	100	9044	5254N	03622E	19.6	155.6		GGGG		
2649-07432	00000/0000	2-20035/0455	11/01/76	100	9044	5130N	03540E	20.7	154.8		GGGG		
2649-07435	00000/0000	2-20035/0456	11/01/76	80	9044	5006N	03459E	21.8	154.0		GGGG		
2649-07441	00000/0000	2-20035/0457	11/01/76	50	9044	4842N	03421E	22.9	153.2		GGGG		
2649-07444	00000/0000	2-20035/0458	11/01/76	80	9044	4717N	03344E	24.0	152.4		GGGG		
2649-13181	00000/0000	2-20035/0459	11/01/76	10	9047	3423S	06541W	47.4	72.9		GGGG		
2649-14362	00000/0000	2-20035/0420	11/01/76	70	9048	5130N	06736W	20.6	154.8		GGGG		
2649-14365	00000/0000	2-20035/0421	11/01/76	90	9048	5006N	06817W	21.7	154.0		GGGG		
2649-14371	00000/0000	2-20035/0422	11/01/76	90	9048	4841N	06855W	22.8	153.2		GGG		
2649-14424	00000/0000	2-20035/0423	11/01/76	60	9048	3013N	07520W	36.4	142.4		GGGG		
2649-14430	00000/0000	2-20035/0424	11/01/76	90	9048	2847N	07544W	37.4	141.4		GGGG		
2649-14433	00000/0000	2-20035/0425	11/01/76	70	9048	2721N	07608W	38.3	140.4		GGGG		
2649-16194	00000/0000	2-20035/0450	11/01/76	30	9049	5130N	09326W	20.6	154.8		GGGG		

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OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2649-23374	00000/0000	2-20035/0426	11/01/76	70	9053	3422S	13925E	47.5	73.1		PFGG		
2650-01192	00000/0000	2-20035/0427	11/02/76	0	9054	2841S	11517E	49.9	78.5		GGGG		
2650-01194	00000/0000	2-20035/0428	11/02/76	0	9054	3006S	11453E	49.4	77.0		GGGG		
2650-02430	00000/0000	2-20035/0460	11/02/76	20	9055	3846N	10635E	30.2	147.7		GGGG		
2650-02433	00000/0000	2-20035/0461	11/02/76	40	9055	3721N	10607E	31.2	146.9		GGGG		
2650-02435	00000/0000	2-20035/0462	11/02/76	100	9055	3556N	10540E	32.3	146.1		GGGG		
2650-02442	00000/0000	2-20035/0463	11/02/76	100	9055	3430N	10513E	33.3	145.2		GGGG		
2650-02444	00000/0000	2-20035/0464	11/02/76	90	9055	3305N	10447E	34.3	144.3		GGGG		
2650-02451	00000/0000	2-20035/0429	11/02/76	90	9055	3139N	10421E	35.3	143.4		GGGG		
2650-02453	00000/0000	2-20035/0430	11/02/76	100	9055	3013N	10357E	36.3	142.5		GGGG		
2650-02460	00000/0000	2-20035/0431	11/02/76	80	9055	2848N	10334E	37.3	141.5		GGGG		
2650-02462	00000/0000	2-20035/0432	11/02/76	30	9055	2722N	10310E	38.2	140.5		GGGG		
2650-02465	00000/0000	2-20035/0433	11/02/76	50	9055	2556N	10246E	39.1	139.5		GGGG		
2650-02471	00000/0000	2-20035/0434	11/02/76	70	9055	2429N	10223E	40.1	138.5		GGGG		
2650-04241	00000/0000	2-20035/0435	11/02/76	10	9056	4552N	08320E	24.8	151.7		GGGG		
2650-04244	00000/0000	2-20035/0436	11/02/76	30	9056	4427N	08247E	25.9	150.9		FGGG		
2650-04250	00000/0000	2-20035/0437	11/02/76	10	9056	4302N	08214E	27.0	150.1		GGGG		
2650-04264	00000/0000	2-20035/0438	11/02/76	60	9056	3720N	08015E	31.2	146.9		GGGG		
2650-04285	00000/0000	2-20035/0439	11/02/76	0	9056	3010N	07807E	36.3	142.5		GGG		
2650-04291	00000/0000	2-20035/0440	11/02/76	0	9056	2844N	07743E	37.2	141.5		GGGG		
2650-04294	00000/0000	2-20035/0441	11/02/76	0	9056	2720N	07719E	38.2	140.6		GGGG		
2650-04300	00000/0000	2-20035/0442	11/02/76	0	9056	2554N	07655E	39.1	139.5		GGGG		
2650-04303	00000/0000	2-20035/0443	11/02/76	0	9056	2427N	07632E	40.0	138.5		GGGG		
2650-04305	00000/0000	2-20035/0444	11/02/76	0	9056	2300N	07610E	40.9	137.4		GGGG		
2650-04312	00000/0000	2-20035/0445	11/02/76	0	9056	2135N	07548E	41.8	136.3		FGGG		
2650-04314	00000/0000	2-20035/0446	11/02/76	0	9056	2010N	07527E	42.7	135.1		GGGG		
2650-04321	00000/0000	2-20035/0447	11/02/76	0	9056	1844N	07505E	43.5	133.9		GGGG		
2650-04323	00000/0000	2-20035/0448	11/02/76	0	9056	1719N	07443E	44.3	132.7		GGGG		
2650-04330	00000/0000	2-20035/0449	11/02/76	10	9056	1552N	07422E	45.1	131.4		GGGG		
2650-07472	00000/0000	2-20035/0465	11/02/76	90	9058	5704N	03716E	15.9	158.2		GGGG		
2650-07475	00000/0000	2-20035/0466	11/02/76	90	9058	5541N	03626E	17.0	157.3		GGGG		
2650-07481	00000/0000	2-20035/0467	11/02/76	90	9058	5417N	03538E	18.1	156.5		GGGG		
2650-07484	00000/0000	2-20035/0468	11/02/76	70	9058	5253N	03454E	19.3	155.7		GGGG		
2650-07490	00000/0000	2-20035/0469	11/02/76	20	9058	5129N	03411E	20.4	154.8		GGGG		
2650-07493	00000/0000	2-20035/0470	11/02/76	50	9058	5005N	03331E	21.5	154.1		GGGG		
2650-07495	00000/0000	2-20035/0471	11/02/76	60	9058	4840N	03252E	22.6	153.3		GGGG		

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
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MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2650-07502	00000/0000	2-20035/0472	11/02/76	50	9058	4716N	03215E	23.7	152.5		GGGG		
2650-07504	00000/0000	2-20035/0473	11/02/76	40	9058	4551N	03140E	24.8	151.7		GFGG		
2650-14430	00000/0000	2-20035/0321	11/02/76	90	9062	4842N	07021W	22.5	153.3		GGGG		
2650-14494	00000/0000	2-20035/0322	11/02/76	40	9062	2555N	07757W	39.0	139.6		GGGG		
2650-14500	00000/0000	2-20035/0323	11/02/76	20	9062	2429N	07820W	39.9	138.6		GGGG		
2650-23430	00000/0000	2-20035/0474	11/02/76	80	9067	3256S	13825E	48.3	74.7		GGGG		
2650-23433	00000/0000	2-20035/0475	11/02/76	70	9067	3422S	13759E	47.6	73.5		GGG		
2651-01244	00000/0000	2-20035/0476	11/03/76	0	9068	2715S	11414E	50.6	80.4		GGGG		
2651-01250	00000/0000	2-20035/0477	11/03/76	0	9068	2840S	11351E	50.0	78.9		GGGG		
2651-02491	00000/0000	2-20035/0478	11/03/76	20	9069	3721N	10443E	31.0	147.1		GGFG		
2651-02505	00000/0000	2-20035/0479	11/03/76	30	9069	3137N	10258E	35.0	143.6		GGGG		
2651-02575	00000/0000	2-20035/0480	11/03/76	30	9069	0714N	09643E	49.1	123.1		GGGG		
2651-04293	00000/0000	2-20035/0497	11/03/76	100	9070	4717N	08230E	23.4	152.6		GGGG		
2651-04295	00000/0000	2-20035/0498	11/03/76	100	9070	4552N	08155E	24.5	151.8		GGGG		
2651-04302	00000/0000	2-20035/0499	11/03/76	90	9070	4429N	08121E	25.6	151.0		GGGG		
2651-04304	00000/0000	2-20035/0481	11/03/76	50	9070	4303N	08048E	26.7	150.3		GGGG		
2651-04311	00000/0000	2-20035/0482	11/03/76	40	9070	4137N	08017E	27.8	149.5		GGGG		
2651-04313	00000/0000	2-20035/0483	11/03/76	10	9070	4012N	07946E	28.8	148.7		GGGG		
2651-04340	00000/0000	2-20035/0484	11/03/76	0	9070	3138N	07705E	35.0	143.6		GGGG		
2651-04352	00000/0000	2-20035/0485	11/03/76	0	9070	2720N	07552E	37.9	140.8		GGGG		
2651-04354	00000/0000	2-20035/0486	11/03/76	0	9070	2554N	07529E	38.9	139.8		GGGG		
2651-04361	00000/0000	2-20035/0487	11/03/76	0	9070	2428N	07506E	39.8	138.7		GGGG		
2651-04363	00000/0000	2-20035/0488	11/03/76	0	9070	2301N	07444E	40.7	137.7		GGGG		
2651-04370	00000/0000	2-20035/0489	11/03/76	0	9070	2135N	07422E	41.6	136.5		GGGG		
2651-04372	00000/0000	2-20035/0490	11/03/76	0	9070	2009N	07400E	42.5	135.4		GGGG		
2651-04375	00000/0000	2-20035/0491	11/03/76	0	9070	1843N	07338E	43.3	134.2		GGGG		
2651-04381	00000/0000	2-20035/0492	11/03/76	0	9070	1717N	07317E	44.1	133.0		GGGG		
2651-06151	00000/0000	2-20035/0493	11/03/76	10	9071	3845N	05329E	29.9	147.9		GGGF		
2651-06154	00000/0000	2-20035/0494	11/03/76	0	9071	3720N	05301E	30.9	147.1		GGGG		
2651-06160	00000/0000	2-20035/0495	11/03/76	0	9071	3554N	05234E	32.0	146.3		FGGG		
2651-06163	00000/0000	2-20035/0496	11/03/76	40	9071	3429N	05207E	33.0	145.4		GGGG		
2651-07531	00000/0000	2-20035/0500	11/03/76	70	9072	5704N	03553E	15.6	158.3		GGGG		
2651-07533	00000/0000	2-20035/0501	11/03/76	100	9072	5540N	03503E	16.7	157.4		GGGG		
2651-07540	00000/0000	2-20035/0502	11/03/76	100	9072	5417N	03416E	17.8	156.5		GGGG		
2651-07542	00000/0000	2-20035/0503	11/03/76	60	9072	5253N	03330E	19.0	155.7		GGGG		
2651-07551	00000/0000	2-20035/0504	11/03/76	90	9072	5005N	03207E	21.2	154.1		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2651-07554	00000/0000	2-20035/0505	11/03/76	100	9072	4840N	03129E	22.3	153.4		GGGG		
2651-07560	00000/0000	2-20035/0506	11/03/76	100	9072	4715N	03053E	23.4	152.6		GGGG		
2651-07563	00000/0000	2-20035/0507	11/03/76	80	9072	4551N	03018E	24.5	151.8		GGGG		
2651-14484	00000/0000	2-20035/0508	11/03/76	100	9076	4841N	07148W	22.2	153.4		GGGG		
2652-02581	00000/0000	2-20035/0553	11/04/76	80	9083	2555N	09953E	38.6	140.0		GGGG		
2652-04360	00000/0000	2-20035/0554	11/04/76	90	9084	4427N	07955E	25.3	151.2		GGGG		
2652-04374	00000/0000	2-20035/0555	11/04/76	90	9084	3845N	07753E	29.6	148.0		GGGG		
2652-04392	00000/0000	2-20035/0516	11/04/76	10	9084	3302N	07606E	33.8	144.7		GGG		
2652-04395	00000/0000	2-20035/0517	11/04/76	0	9084	3137N	07541E	34.8	143.8		GGGG		
2652-04401	00000/0000	2-20035/0518	11/04/76	0	9084	3012N	07516E	35.7	142.9		GGGG		
2652-04404	00000/0000	2-20035/0519	11/04/76	0	9084	2846N	07451E	36.7	142.0		GGGG		
2652-04410	00000/0000	2-20035/0520	11/04/76	0	9084	2720N	07427E	37.7	141.0		GGGG		
2652-04413	00000/0000	2-20035/0521	11/04/76	0	9084	2554N	07404E	38.6	140.0		GGGG		
2652-04415	00000/0000	2-20035/0522	11/04/76	0	9084	2428N	07341E	39.6	139.0		GGGG		
2652-04422	00000/0000	2-20035/0523	11/04/76	0	9084	2302N	07318E	40.5	137.9		GGGG		
2652-04424	00000/0000	2-20035/0524	11/04/76	0	9084	2137N	07256E	41.4	136.8		GGGG		
2652-04431	00000/0000	2-20035/0525	11/04/76	0	9084	2010N	07235E	42.2	135.7		GGGG		
2652-06210	00000/0000	2-20035/0526	11/04/76	10	9085	3845N	05203E	29.6	148.0		GGGG		
2652-06215	00000/0000	2-20035/0527	11/04/76	0	9085	3554N	05108E	31.7	146.4		GGFG		
2652-06221	00000/0000	2-20035/0528	11/04/76	0	9085	3429N	05042E	32.7	145.6		GGGG		
2652-06224	00000/0000	2-20035/0529	11/04/76	20	9085	3303N	05016E	33.7	144.7		GGGG		
2652-06230	00000/0000	2-20035/0530	11/04/76	10	9085	3137N	04950E	34.7	143.8		GGGG		
2652-06233	00000/0000	2-20035/0531	11/04/76	0	9085	3011N	04925E	35.7	142.9		GGGG		
2652-06235	00000/0000	2-20035/0532	11/04/76	0	9085	2845N	04901E	36.7	142.0		GGGG		
2652-07594	00000/0000	2-20035/0556	11/04/76	90	9086	5417N	03249E	17.5	156.6		GGGG		
2652-08000	00000/0000	2-20035/0557	11/04/76	100	9086	5253N	03205E	18.7	155.8		GGGG		
2652-08003	00000/0000	2-20035/0558	11/04/76	100	9086	5129N	03122E	19.8	155.0		GGGG		
2652-08005	00000/0000	2-20035/0559	11/04/76	100	9086	5005N	03042E	20.9	154.2		GGGG		
2652-08012	00000/0000	2-20035/0560	11/04/76	100	9086	4840N	03003E	22.0	153.5		GGGG		
2652-08014	00000/0000	2-20035/0561	11/04/76	90	9086	4715N	02926E	23.1	152.7		GGGG		
2652-08021	00000/0000	2-20035/0562	11/04/76	90	9086	4550N	02851E	24.2	151.9		GGGG		
2652-08023	00000/0000	2-20035/0563	11/04/76	50	9086	4425N	02817E	25.3	151.2		GFGG		
2652-08030	00000/0000	2-20035/0564	11/04/76	20	9086	4301N	02745E	26.4	150.4		GFGG		
2652-13104	00000/0000	2-20035/0509	11/04/76	90	9089	5006N	04646W	20.8	154.3		GGGG		
2652-13110	00000/0000	2-20035/0510	11/04/76	90	9089	4841N	04724W	21.9	153.5		GGGG		
2652-13113	00000/0000	2-20035/0511	11/04/76	50	9089	4717N	04800W	23.0	152.7		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2652-13115	00000/0000	2-20035/0512	11/04/76	80	9089	4552N	04835W	24.1	152.0		GGGF		
2652-13122	00000/0000	2-20035/0513	11/04/76	90	9089	4427N	04908W	25.2	151.2		GGGG		
2652-13124	00000/0000	2-20035/0514	11/04/76	70	9089	4302N	04940W	26.3	150.4		GGGG		
2652-13131	00000/0000	2-20035/0515	11/04/76	60	9089	4137N	05011W	27.4	149.7		GGGG		
2652-23542	00000/0000	2-20035/0533	11/04/76	80	9095	3257S	13533E	48.6	75.5		FGGG		
2652-23545	00000/0000	2-20035/0534	11/04/76	90	9095	3423S	13507E	48.0	74.2		FGGG		
2653-03001	00000/0000	2-20035/0535	11/05/76	60	9097	3846N	10217E	29.4	148.2		GGGG		
2653-03003	00000/0000	2-20035/0536	11/05/76	50	9097	3720N	10149E	30.4	147.4		GGGG		
2653-04421	00000/0000	2-20035/0537	11/05/76	40	9098	4300N	07756E	26.1	150.5		GGGG		
2653-04423	00000/0000	2-20035/0538	11/05/76	40	9098	4136N	07726E	27.2	149.7		GGGG		
2653-04430	00000/0000	2-20035/0539	11/05/76	10	9098	4010N	07656E	28.3	149.0		GGGG		
2653-04432	00000/0000	2-20035/0540	11/05/76	0	9098	3845N	07627E	29.3	148.2		GGGG		
2653-04435	00000/0000	2-20035/0541	11/05/76	0	9098	3719N	07559E	30.4	147.4		GGGG		
2653-04441	00000/0000	2-20035/0542	11/05/76	0	9098	3554N	07532E	31.4	146.5		GGGG		
2653-04444	00000/0000	2-20035/0543	11/05/76	0	9098	3428N	07505E	32.5	145.7		GGGG		
2653-04450	00000/0000	2-20035/0544	11/05/76	0	9098	3302N	07439E	33.5	144.9		GGGG		
2653-04453	00000/0000	2-20035/0545	11/05/76	0	9098	3137N	07414E	34.5	144.0		GGGG		
2653-04455	00000/0000	2-20035/0546	11/05/76	0	9098	3011N	07349E	35.5	143.1		GGGG		
2653-04462	00000/0000	2-20035/0547	11/05/76	0	9098	2845N	07324E	36.5	142.2		GGGG		
2653-04464	00000/0000	2-20035/0548	11/05/76	0	9098	2719N	07300E	37.4	141.2		GGGG		
2653-04471	00000/0000	2-20035/0549	11/05/76	0	9098	2552N	07237E	38.4	140.2		GGGG		
2653-04473	00000/0000	2-20035/0550	11/05/76	0	9098	2426N	07214E	39.3	139.2		GGGG		
2653-04480	00000/0000	2-20035/0551	11/05/76	0	9098	2301N	07152E	40.2	138.1		GGGG		
2653-04482	00000/0000	2-20035/0552	11/05/76	0	9098	2135N	07130E	41.1	137.0		GGGG		
2653-13160	00000/0000	2-20035/0573	11/05/76	30	9103	5130N	04730W	19.4	155.1		GGGG		
2653-13162	00000/0000	2-20035/0574	11/05/76	50	9103	5006N	04811W	20.5	154.3		FGGG		
2653-13165	00000/0000	2-20035/0575	11/05/76	50	9103	4841N	04850W	21.6	153.6		FGGF		
2653-13171	00000/0000	2-20035/0576	11/05/76	80	9103	4716N	04926W	22.7	152.8		GPFG		
2653-13174	00000/0000	2-20035/0577	11/05/76	90	9103	4551N	05001W	23.8	152.0		GGFG		
2653-13180	00000/0000	2-20035/0578	11/05/76	100	9103	4426N	05035W	24.9	151.3		GFGG		
2653-13183	00000/0000	2-20035/0579	11/05/76	90	9103	4301N	05107W	26.0	150.5		GGGG		
2653-13185	00000/0000	2-20035/0580	11/05/76	90	9103	4136N	05138W	27.1	149.8		GGGG		
2653-14594	00000/0000	2-20035/0581	11/05/76	90	9104	5005N	07401W	20.5	154.3		GGGG		
2654-13214	00000/0000	2-20035/0565	11/06/76	100	9117	5129N	04859W	19.1	155.2		GFGF		
2654-13223	00000/0000	2-20035/0566	11/06/76	100	9117	4840N	05017W	21.4	153.6		FGGG		
2654-13225	00000/0000	2-20035/0567	11/06/76	90	9117	4716N	05053W	22.5	152.9		GGGG		

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LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN
2654-13232	00000/0000	2-20035/0568	11/06/76	100	9117	4552N	05129W	23.6	152.1		FFGF		
2654-13234	00000/0000	2-20035/0569	11/06/76	100	9117	4428N	05203W	24.7	151.4		FGFG		
2654-13241	00000/0000	2-20035/0570	11/06/76	100	9117	4300N	05235W	25.7	150.6		FGGG		
2654-13243	00000/0000	2-20035/0571	11/06/76	100	9117	4135N	05305W	26.8	149.9		FGGF		
2654-13252	00000/0000	2-20035/0572	11/06/76	100	9118	5005N	07528W	20.2	154.4		GGFG		

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT 2
COORDINATE LISTING

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
15131E	2716S	2642-22554	60	GGGG
15091E	2423S	2643-23004	90	GGGG
15044E	3006S	2642-22563	90	GGGG
15028E	2549S	2643-23010	90	GGGG
15019E	3132S	2642-22570	100	GGGG
15005E	2715S	2643-23013	40	GGGG
14954E	3257S	2642-22572	100	GGGG
14942E	2841S	2643-23015	40	GGGG
14917E	3006S	2643-23022	30	FGFF
14903E	2549S	2644-23064	40	GGGG
14853E	3132S	2643-23024	50	FGGG
14840E	2714S	2644-23071	10	GGGG
14828E	3258S	2643-23031	70	GGGG
14823E	2257S	2645-23114	0	GGGG
14816E	2841S	2644-23073	0	GGGG
14803E	3423S	2643-23033	40	GGGG
14800E	2422S	2645-23120	0	GGGG
14736E	3547S	2643-23040	30	GGGG
14727E	3132S	2644-23082	10	GGGG
14702E	3257S	2644-23085	10	GGGG
14653E	2257S	2646-23172	60	GGGG
14636E	3422S	2644-23091	10	GGGG
14609E	3547S	2644-23094	10	GGGG
14542E	3712S	2644-23100	40	GGGG
14537E	3258S	2645-23143	10	GGGG
14512E	3423S	2645-23150	10	GGGG
14445E	3547S	2645-23152	0	GGGG
14417E	3712S	2645-23155	20	GGGG
14344E	3422S	2646-23204	10	GGGG
14317E	3548S	2646-23210	0	GGGG
14250E	3713S	2646-23213	10	GGGG
14217E	3422S	2647-23262	90	GGGF
14151E	3547S	2647-23264	90	GGGG
14124E	3712S	2647-23271	20	FFFF
14051E	3421S	2648-23320	60	GGGG
14025E	3546S	2648-23323	80	GGGG
13925E	3422S	2649-23374	70	PFGG
13825E	3256S	2650-23430	80	GGGG
13759E	3422S	2650-23433	70	GGG
13733E	3257S	2652-23542	80	FGGG
13707E	3423S	2652-23545	90	FGGG
12238E	3257S	2644-00462	50	GGGG
12137E	3133S	2645-00514	40	GGGG
12113E	3258S	2645-00520	40	GFGG
12011E	3132S	2646-00572	70	GGGG
11946E	3257S	2646-00575	70	GGGG
11929E	3845N	2641-01514	10	FFFG
11921E	3423S	2646-00581	50	GGGG
11909E	3007S	2647-01024	30	GGGG
11900E	3720N	2641-01521	30	GGGG
11844E	3132S	2647-01030	10	GGGG
11833E	3554N	2641-01523	20	GGGG
11819E	3257S	2647-01033	20	GGGG
11806E	4301N	2643-02015	0	GGGG
11806E	3429N	2641-01530	30	FGGG
11753E	3423S	2647-01035	50	GGGG
11745E	3006S	2648-01082	40	GGGG
11740E	3303N	2641-01532	60	GGGG
11735E	4136N	2643-02022	0	G
11720E	3131S	2648-01085	80	GGGG
11714E	3137N	2641-01535	90	GGGG
11705E	4011N	2643-02024	0	GPGG
11655E	3256S	2648-01091	60	GGGG
11650E	4011N	2641-01541	90	GGGG
11642E	2840S	2649-01134	0	GGGG
11640E	4301N	2644-02073	100	GGGF
11636E	3846N	2643-02031	0	FGGG
11618E	3006S	2649-01140	0	GGGG
11609E	4136N	2644-02080	100	GGGG
11609E	3721N	2643-02033	0	FGGG
11553E	3131S	2649-01143	20	GGGG
11542E	3555N	2643-02040	0	GGGG
11517E	2841S	2650-01192	0	GGGG
11515E	3429N	2643-02042	0	GGGG
11453E	3006S	2650-01194	0	GGGG
11450E	3303N	2643-02045	0	GGGG
11444E	4136N	2645-02134	10	GGGG
11442E	3722N	2644-02091	80	GGGG
11424E	3138N	2643-02051	20	GGGG
11415E	3556N	2644-02094	90	GGGG
11414E	4011N	2645-02141	10	GGGG
11414E	2715S	2651-01244	0	GGGG
11400E	3012N	2643-02054	60	GGGG
11351E	2840S	2651-01250	0	GGGG
11348E	3430N	2644-02100	60	GGGG
11345E	3846N	2645-02143	0	GGGG
11335E	2846N	2643-02060	80	GGGG
11323E	3304N	2644-02103	40	GGGG
11317E	4136N	2646-02192	10	GGGG
11317E	3720N	2645-02150	0	GGGG
11312E	2721N	2643-02063	90	GGGG
11258E	3139N	2644-02105	60	GGGG
11250E	3555N	2645-02152	0	FGGG
11249E	2555N	2643-02065	90	FGGG
11247E	4011N	2646-02195	10	GGGG
11233E	3013N	2644-02112	100	GGGG
11226E	2428N	2643-02072	100	FGGG
11224E	3430N	2645-02155	0	GGGG
11218E	3846N	2646-02201	0	GGGG
11208E	2846N	2644-02114	100	GGGG
11203E	2302N	2643-02074	100	GGGG
11158E	3304N	2645-02161	0	GGGG
11144E	2720N	2644-02121	90	GGGG
11141E	2136N	2643-02081	80	FGGG
11132E	3137N	2645-02164	0	FGGG
11123E	3555N	2646-02210	0	GGGG
11122E	4012N	2647-02253	0	GGGG
11121E	2554N	2644-02123	90	GGGG

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
11107E	3011N	2645-02170	40	GGGG
11058E	2428N	2644-02130	90	GGGG
11056E	3429N	2646-02213	0	GGGG
11052E	3847N	2647-02255	0	GGGG
11042E	2845N	2645-02173	90	GGGG
11035E	2402N	2644-02132	90	GGGG
11029E	3303N	2646-02215	10	GGGG
11024E	3721N	2647-02262	0	GGGG
11019E	2719N	2645-02175	90	GGGG
11013E	2136N	2644-02135	60	GGGG
10957E	3555N	2647-02264	0	GGFG
10956E	2553N	2645-02182	90	GGGG
10951E	2010N	2644-02141	70	GGGG
10933E	2427N	2645-02184	80	GGGG
10931E	3429N	2647-02271	10	FGGF
10911	2302N	2645-02191	90	GGGG
10905E	3303N	2647-02273	20	GFGG
10852E	2720N	2646-02233	30	GGGG
10849E	2137N	2645-02193	80	GGGG
10840E	3138N	2647-02280	10	GGGG
10829E	2554N	2646-02240	80	GGGG
10815E	3012N	2647-02282	60	GGGG
10806E	2428N	2646-02242	100	GGGG
10751E	2846N	2647-02285	70	GGGG
10743E	2302N	2646-02245	100	GGGG
10739E	3304N	2648-02332	80	GGGG
10727E	2720N	2647-02291	90	GGGG
10714E	3138N	2648-02334	90	GGGG
10703E	2554N	2647-02294	80	GGGG
10650E	3011N	2648-02341	70	GGGG
10638E	3430N	2649-02383	70	GGGG
10635E	3846N	2650-02430	20	GGGG
10626E	2846N	2648-02343	30	GGGG
10613E	3304N	2649-02390	90	GGGG
10607E	3721N	2650-02433	40	GGGG
10602E	2720N	2648-02350	50	GGGG

PRINCIPAL PT. OF IMAGE LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
10948E	3138N	2649-02392	100	GGGG
10940E	3556N	2650-02435	100	GGGG
10939E	2554N	2648-02352	60	GGGG
10923E	3013N	2649-02395	80	GGGG
10919E	3430N	2650-02442	100	GGGG
10858E	2847N	2649-02401	80	GGGG
10847E	3305N	2650-02444	90	GGGG
10843E	3721N	2651-02491	20	GGFG
10835E	2720N	2649-02404	60	GGGG
10821E	3139N	2650-02451	90	GGGG
10811E	2554N	2649-02410	80	GGGG
10757E	3013N	2650-02453	100	GGGG
10749E	2428N	2649-02413	90	GGGG
10734E	2848N	2650-02460	80	GGGG
10726E	2303N	2649-02415	90	GGGG
10710E	2722N	2650-02462	30	GGGG
10258E	3137N	2651-02505	30	GGGG
10246E	2556N	2650-02465	50	GGGG
10229E	2429N	2650-02471	70	GGGG
10217E	3846N	2653-03001	60	GGGG
10149E	3720N	2653-03003	50	GGGG
09953E	2555N	2652-02581	80	GGGG
09943E	0714N	2651-02575	30	GGGG
09216E	4301N	2643-03451	50	GGGG
08957E	4425N	2645-03561	10	GGGG
08924E	4300N	2645-03563	0	GGGG
08832E	4426N	2646-04015	20	GGGG
08800E	4301N	2646-04021	10	GGGG
08728E	4137N	2646-04024	0	GGGG
08707E	4426N	2647-04073	10	FGGG
08656E	2552N	2643-03501	20	FGGG
08648E	4716N	2648-04122	100	GGGG
08634E	4302N	2647-04080	0	GGGG
08613E	4551N	2648-04125	100	GGGG
08611E	2301N	2643-03510	10	GGGG
08603E	4137N	2647-04082	0	GGGG

PRINCIPAL PT. OF IMAGE LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
08549E	2135N	2643-03512	10	GGGG
08540E	4426N	2648-04131	90	GGGG
08528E	2008N	2643-03515	10	GGGG
08522E	4716N	2649-04180	40	GGGG
08447E	4551N	2649-04183	80	GGGG
08429E	2720N	2645-04011	0	GGGG
08425E	2135N	2644-03570	0	GGGG
08413E	4427N	2649-04185	80	GGGG
08405E	2554N	2645-04013	0	GGGG
08403E	2009N	2644-03573	10	GGGG
08343E	2429N	2645-04020	0	GGGG
08341E	4302N	2649-04192	60	GGGG
08320E	4552N	2650-04241	10	GGGG
08320E	2302N	2645-04022	0	GGGG
08309E	4137N	2649-04194	70	GGGG
08303E	2720N	2646-04065	0	G GF
08258E	2135N	2645-04025	0	GGGG
08247E	4427N	2650-04244	30	FGGG
08240E	2554N	2646-04071	0	GGGG
08236E	2009N	2645-04031	0	GGGG
08230E	4717N	2651-04293	100	GGGG
08217E	2428N	2646-04074	0	GGGG
08215E	1843N	2645-04034	0	GGGG
08214E	4302N	2650-04250	10	GGGG
08155E	4552N	2651-04295	100	GGGG
08138E	2720N	2647-04123	10	GGGG
08133E	2137N	2646-04083	0	GGGG
08121E	4428N	2651-04302	90	GGGG
08115E	2554N	2647-04130	0	GGGG
08111E	2011N	2646-04085	0	GGGG
0805 E	2428N	2647-04132	0	FGGG
08050E	1844N	2646-04092	0	GGG
08048E	4303N	2651-04304	50	GGGG
08030E	2302N	2647-04135	0	GFGG
08017E	4137N	2651-04311	40	GGGG
08015E	3720N	2650-04264	60	GGGG

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE LONG	PRINCIPAL PT. OF IMAGE LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
08011E	2720N	2648-04181	0	GGGG
08008E	2136N	2647-04141	0	GGGF
07955E	4427N	2652-04360	90	GGGG
07948E	2555N	2648-04184	0	GGGG
07946E	4012N	2651-04313	10	GGGG
07946E	2009N	2647-04144	0	FGFG
07925E	2429N	2648-04190	0	GGGG
07925E	1843N	2647-04150	10	GGGG
07908E	2846N	2649-04233	0	PPGG
07903E	2303N	2648-04193	0	GGGG
07903E	1717N	2647-04153	10	GGGG
07844E	2720N	2649-04235	0	GGGG
07842E	1550N	2647-04155	20	GGGG
07840E	2137N	2648-04195	0	GGGG
07821E	2554N	2649-04242	0	GGGG
07819E	2010N	2648-04202	0	GGGG
07807E	3010N	2650-04285	0	GGG
07758E	2428N	2649-04244	0	GGGG
07757E	1844N	2648-04204	0	GGGG
07756E	4300N	2653-04421	40	GGGG
07753E	3845N	2652-04374	90	GGGG
07743E	2844N	2650-04291	0	GGGG
07736E	2302N	2649-04251	0	FGGG
07736E	1717N	2648-04211	0	GGGG
07726E	4136N	2653-04423	40	GGGG
07719E	2720N	2650-04294	0	GGGG
07719E	1006N	2647-04173	10	GGGG
07715E	1551N	2648-04213	10	GGGG
07714E	2136N	2649-04253	0	GGGG
07705E	3138N	2651-04340	0	GGGG
07656E	4010N	2653-04430	10	GGGG
07655E	2554N	2650-04300	0	GGGG
07654E	1429N	2648-04220	10	GGGG
07652E	2010N	2649-04260	0	GGGG
07633E	1258N	2648-04222	10	GGGG
07632E	2427N	2650-04303	0	GGGG
07630E	1844N	2649-04262	0	GGGG
07627E	3845N	2653-04432	0	GGGG
07613E	1142N	2648-04225	20	GGGG
07610E	2300N	2650-04305	0	GGGG
07609E	1717N	2649-04265	10	GGGG
07606E	3302N	2652-04392	10	GGG
07559E	3719N	2653-04435	0	GGGG
07552E	2720N	2651-04352	0	GGGG
07548E	2135N	2650-04312	0	FGGG
07548E	1551N	2649-04271	10	GGGG
07541E	3137N	2652-04395	0	GGGG
07532E	3554N	2653-04441	0	GGGG
07529E	2554N	2651-04354	0	GGGG
07527E	2010N	2650-04314	0	GGGG
07527E	1425N	2649-04274	10	GGGG
07516E	3012N	2652-04401	0	GGGG
07506E	2428N	2651-04361	0	GGGG
07505E	3428N	2653-04444	0	GGGG
07505E	1844N	2650-04321	0	GGGG
07451E	2846N	2652-04404	0	GGGG
07444E	2301N	2651-04363	0	GGGG
07443E	1718N	2650-04323	0	GGGG
07439E	3302N	2653-04450	0	GGGG
07427E	2720N	2652-04410	0	GGGG
07422E	2135N	2651-04370	0	GGGG
07422E	1552N	2650-04330	10	GGGG
07414E	3137N	2653-04453	0	GGGG
07409E	2554N	2652-04413	0	GGGG
07400E	2009N	2651-04372	0	GGGG
07349E	3011N	2653-04455	0	GGGG
07341E	2428N	2652-04415	0	GGGG
07338E	1843N	2651-04375	0	GGGG
07324E	2845N	2653-04462	0	GGGG
07318E	2302N	2652-04422	0	GGGG
07317E	1717N	2651-04381	0	GGGG
07300E	2719N	2653-04464	0	GGGG
07256E	2137N	2652-04424	0	GGGG
07237E	2552N	2653-04471	0	GGGG
07235E	2010N	2652-04431	0	GGGG
07214E	2426N	2653-04473	0	GGGG
07152E	2301N	2653-04480	0	GGGG
07130E	2135N	2653-04482	0	GGGG
06529E	4013N	2643-05291	20	GGGG
06459E	3848N	2643-05294	0	GGGG
06401E	4010N	2644-05350	70	GGGG
06332E	3845N	2644-05352	50	GGGG
06303E	3719N	2644-05355	30	GGGG
06246E	3140N	2643-05314	0	GGGG
06236E	3553N	2644-05361	60	GGGG
06209E	3428N	2644-05364	50	GGGG
06157E	2848N	2643-05323	0	GGFG
06143E	3302N	2644-05370	60	GGGG
06133E	2723N	2643-05330	30	GGGG
06118E	3136N	2644-05373	40	GGGG
06110E	2557N	2643-05332	10	GGGG
06053E	3010N	2644-05375	20	FGGG
06029E	2845N	2644-05382	0	GGGG
06018E	3302N	2645-05424	30	GGGG
06012E	3720N	2646-05471	90	GGGG
06005E	2719N	2644-05384	0	GGGG
05952E	3136N	2645-05431	10	GGGG
05945E	3554N	2646-05473	70	GGGG
05942E	2553N	2644-05391	10	FFGG
05927E	3011N	2645-05433	10	GGGG
05918E	3429N	2646-05480	70	GGGG
05903E	2845N	2645-05440	0	GGGG
05852E	3303N	2646-05482	80	GGGG
05845E	3719N	2647-05525	100	GG
05840E	2719N	2645-05442	0	GGGG
05826E	3137N	2646-05485	80	GGGG
05817E	2553N	2645-05445	10	GGGG
05801E	3011N	2646-05491	70	GGGG

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
05737E	2845N	2646-05494	20	GGGG
[illegible]13E	2720N	2646-05500	40	GGGG
[illegible]0E	2554N	2646-05503	10	GGGG
05611E	2846N	2647-05552	20	GGGG
05329E	3845N	2651-06151	10	GGGF
05301E	3720N	2651-06154	0	GGGG
05234E	3554N	2651-06160	0	FGGG
05207E	3429N	2651-06163	40	GGGG
05203E	3845N	2652-06210	10	GGGG
05108E	3554N	2652-06215	0	GGFG
05042E	3429N	2652-06221	0	GGGG
05016E	3303N	2652-06224	20	GGGG
04950E	3137N	2652-06230	10	GGGG
04925E	3011N	2652-06233	0	GGGG
04901E	2845N	2652-06235	0	GGGG
04848E	5707N	2642-07015	80	GGGG
04758E	5544N	2642-07021	70	GGGG
04722E	5707N	2643-07073	100	GFGG
04710E	5420N	2642-07024	70	GGGG
04632E	5544N	2643-07075	100	GGGG
04625E	5256N	2642-07030	90	GGGG
04545E	5420N	2643-07082	90	GGGG
04543E	5132N	2642-07033	90	GGGG
04505E	5544N	2644-07134	100	GGGG
04502E	5007N	2642-07035	100	GGGG
04501E	5256N	2643-07084	100	GGGG
04429E	5707N	2645-07185	80	GGGG
04424E	4843N	2642-07042	90	GGGG
04418E	5132N	2643-07091	90	GGGG
04417E	5421N	2644-07140	90	GGGG
04348E	4718N	2642-07044	90	GGGG
04338E	5544N	2645-07192	70	GGGG
04338E	5008N	2643-07093	90	GGGG
04333E	5256N	2644-07143	90	GGGG
04314E	4553N	2642-07051	100	GGGG
04301E	5704N	2646-07244	80	GGGG
04300E	4844N	2643-07100	70	GGGG
04251E	5420N	2645-07194	80	GGGG
04250E	5132N	2644-07145	100	GGGG
04241E	4428N	2642-07053	90	GGGG
04222E	4719N	2643-07102	20	GGGG
04211E	5541N	2646-07250	90	GGGG
04211E	5007N	2644-07152	100	GGGG
04209E	4304N	2642-07060	90	GGGG
04206E	5255N	2645-07201	40	GGGG
04147E	4554N	2643-07105	60	GGGG
04140E	5705N	2647-07302	70	GGGG
04137E	4139N	2642-07062	90	GGGG
04132E	4843N	2644-07154	50	GGGG
04125E	5417N	2646-07253	70	GGGG
04123E	5131N	2645-07203	20	GGGG
04114E	4429N	2643-07111	80	GGGG
04053E	4717N	2644-07161	10	GGGG
04049E	5542N	2647-07304	70	GGGF
04043E	5007N	2645-07210	50	GGGG
04041E	5254N	2646-07255	30	GGGG
04020E	4552N	2644-07163	20	GGGG
04009E	5705N	2648-07360	100	GGGG
04005E	4843N	2645-07212	100	GGGG
04002E	5418N	2647-07311	20	GGGG
03958E	5129N	2646-07262	10	GGGG
03947E	4428N	2644-07170	50	GGGG
03929E	4718N	2645-07215	100	GGGG
03919E	5541N	2648-07362	100	GGGF
03918E	5004N	2646-07264	10	GGGG
03916E	5254N	2647-07313	10	GGGG
03854E	4553N	2645-07221	90	GGGG
03842E	5704N	2649-07414	100	GGGG
03840E	4840N	2646-07271	10	GGGG
03833E	5130N	2647-07320	10	GGGG
03831E	5417N	2648-07365	100	GGGF
03821E	4428N	2645-07224	60	GGGG
03803E	4716N	2646-07273	10	GGGG
03752E	5541N	2649-07421	100	GGGG
03752E	5005N	2647-07322	0	GGGG
03747E	5254N	2648-07371	90	GGGG
03728E	4551N	2646-07280	20	GGGG
03716E	5704N	2650-07472	90	GGGG
03713E	4841N	2647-07325	10	FGGG
03706E	5417N	2649-07423	100	GGGG
03705E	5130N	2648-07374	90	GGFF
03655E	4426N	2646-07282	10	GGGG
03636E	4716N	2647-07331	0	FGGG
03626E	5541N	2650-07475	90	GGGG
03626E	5006N	2648-07380	90	GGGF
03622E	5254N	2649-07430	100	GGGG
03601E	4551N	2647-07334	0	GFGF
03553E	5704N	2651-07531	70	GGGG
03540E	5130N	2649-07432	100	GGGG
03538E	5417N	2650-07481	90	GGGG
03528E	4426N	2647-07340	10	FFFF
03511E	4717N	2648-07385	100	FGGG
03503E	5540N	2651-07533	100	GGGG
03459E	5006N	2649-07435	80	GGGG
03454E	5253N	2650-07484	70	GGGG
03436E	4552N	2648-07392	90	GGFG
03421E	4842N	2649-07441	50	GGGG
03416E	5417N	2651-07540	100	GGGG
03411E	5129N	2650-07490	20	GGGG
03402E	4427N	2648-07394	90	GGGF
03344E	4717N	2649-07444	80	GGGG
03331E	5005N	2650-07493	50	GGGG
03330E	5253N	2651-07542	60	GGGG
03252E	4840N	2650-07495	60	GGGG
03249E	5417N	2652-07594	90	GGGG
03215E	4716N	2650-07502	50	GGGG
03207E	5005N	2651-07551	90	GGGG
03205E	5253N	2652-08000	100	GGGG

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
03140E	4551N	2650-07504	40	GFGG
03129E	4840N	2651-07554	100	GGGG
03122E	5129N	2652-08003	100	GGGG
03106E	0842N	2643-07214	40	GGGG
03053E	4715N	2651-07560	100	GGGG
03046E	0716N	2643-07220	30	GGGG
03042E	5005N	2652-08005	100	GGGG
03025E	0550N	2643-07223	30	GGGG
03018E	4551N	2651-07563	80	GGGG
03003E	4840N	2652-08012	100	GGGG
02926E	4715N	2652-08014	90	GGGG
02851E	4550N	2652-08021	90	GGGG
02817E	4425N	2652-08023	50	GFGG
02745E	4301N	2652-08030	20	GFGG
02449E	5953N	2642-08441	60	GGGG
02440E	1836S	2643-07293	10	GGGG
02419E	2002S	2643-07300	10	GGFG
02352E	5830N	2642-08444	60	GGGG
02314E	1837S	2644-07352	10	GGGG
02258E	5707N	2642-08450	10	GGGG
02252E	2003S	2644-07354	0	FFFF
02207E	5543N	2642-08453	30	GGGG
02127E	2003S	2645-07412	30	GGGG
02120E	5420N	2642-08455	30	GGGG
01954E	5419N	2643-08513	10	FGGG
04646W	5006N	2652-13104	90	GGGG
04724W	4841N	2652-13110	90	GGGG
04730W	5130N	2653-13160	30	GGGG
04800W	4717N	2652-13113	50	GGGG
04811W	5006N	2653-13162	50	FGGG
04835W	4552N	2652-13115	80	GGGF
04850W	4841N	2653-13165	50	FGGF
04859W	5129N	2654-13214	100	GFGF
04908W	4427N	2652-13122	90	GGGG
04926W	4716N	2653-13171	80	GPFG
04940W	4302N	2652-13124	70	GGGG
05001W	4551N	2653-13174	90	GGFG
05011W	4137N	2652-13131	60	GGGG
05017W	4840N	2654-13223	100	FGGG
05035W	4426N	2653-13180	100	GFGG
05053W	4716N	2654-13225	90	GGGG
05107W	4301N	2653-13183	90	GGGG
05129W	4552N	2654-13232	100	FFGF
05138W	4136N	2653-13185	90	GGGG
05142W	2006S	2642-12340	90	GGGG
05203W	4428N	2654-13234	100	FGFG
05204W	2131S	2642-12343	80	FFFF
05235W	4300N	2654-13241	100	FGGG
05247W	1840S	2643-12392	80	GFGG
05305W	4135N	2654-13243	100	FGGF
05308W	2006S	2643-12395	60	GPPP
05311W	2549S	2642-12354	90	GGGG
05330W	2132S	2643-12401	60	FFFF
05335W	2715S	2642-12361	100	GGGG
05352W	2258S	2643-12404	90	FFFF
05358W	2840S	2642-12363	70	GGGG
05413W	2424S	2643-12410	80	GGGG
05423W	3006S	2642-12370	50	GGGG
05438W	2551S	2643-12413	30	F
05525W	2841S	2643-12422	50	GGGG
05550W	3006S	2643-12424	80	GGGG
05650W	2841S	2644-12480	50	GGGG
05714W	3007S	2644-12482	50	GGGG
05721W	5706N	2644-14061	90	GGGG
05759W	3714S	2643-12445	70	GGGG
05803W	3258S	2644-12491	90	GGGG
05811W	5542N	2644-14064	90	GGGG
05827W	3838S	2643-12451	50	GGGG
05829W	3423S	2644-12494	80	FFFF
05855W	3549S	2644-12500	60	PGGG
05858W	5418N	2644-14070	100	GGFG
05903W	3131S	2645-12543	10	FFGG
05942W	2840S	2646-12592	60	FFFF
05943W	5254N	2644-14073	100	FGFG
05951W	3838S	2644-12505	90	GGGG
05955W	3422S	2645-12552	60	GGGG
06007W	3006S	2646-12595	40	GGGG
06022W	3547S	2645-12555	40	GGGG
06025W	5130N	2644-14075	90	GGGG
06031W	3131S	2646-13001	40	FFFF
06049W	3713S	2645-12561	10	FFGG
06057W	3257S	2646-13004	50	GGGG
06105W	5006N	2644-14082	30	GGGG
06108W	2840S	2647-13050	40	FFFF
06117W	3839S	2645-12564	10	FFGG
06123W	3423S	2646-13010	40	GGGG
06132W	3005S	2647-13053	90	GGGG
06143W	4842N	2644-14084	50	GGGG
06146W	4004S	2645-12570	0	GGGG
06157W	3130S	2647-13055	90	FFFF
06220W	4717N	2644-14091	80	GGGG
06222W	3256S	2647-13062	90	GGGG
06231W	5006N	2645-14140	10	GGGG
06245W	3838S	2646-13022	90	GGGG
06248W	3422S	2647-13064	100	GGGG
06255W	4552N	2644-14093	80	GGGG
06309W	4841N	2645-14143	40	GGG
06314W	3548S	2647-13071	100	FFFF
06314W	4004S	2646-13024	80	FFFF
06319W	5130N	2646-14192	90	GGGG
06328W	4427N	2644-14100	70	GGGG
06342W	3713S	2647-13073	100	FFFF
06359W	5005N	2646-14194	100	GGGG
06401W	4302N	2644-14102	80	GGGG
06410W	3837S	2647-13080	50	GGGG
06420W	4552N	2645-14152	20	GGG
06432W	4137N	2644-14105	60	GGGG
06436W	4841N	2646-14201	90	GGGG

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

LANDSAT-2
CORDINATE LISTING
FOR NON-US
FROM 11/01/76 TO 11/30/76

PRINCIPAL PT. OF IMAGE LONG	PRINCIPAL PT. OF IMAGE LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
06455W	4427N	2645-14154	50	GGGG
06524W	5007N	2647-14253	40	GGGG
06528W	4301N	2645-14161	60	GGGG
06541W	3423S	2649-13181	10	GGGG
06600W	4136N	2645-14163	70	GGGG
06602W	4842N	2647-14255	20	GGGG
06612W	5131N	2648-14304	80	FGGG
06652W	5006N	2648-14311	80	GGGF
06724W	4137N	2646-14221	30	GGGG
06730W	4842N	2648-14313	80	GGGG
06736W	5130N	2649-14362	70	GGGG
06755W	4011N	2646-14224	50	GGGG
06817W	5006N	2649-14365	90	GGGG
06824W	3846N	2646-14230	60	GGGG
06855W	4841N	2649-14371	90	GGG
06951W	3846N	2647-14285	10	GGFG
07019W	3721N	2647-14291	20	GGGG
07021W	4842N	2650-14430	90	GGGG
07046W	3555N	2647-14294	20	GGGG
07112W	3430N	2647-14300	10	GGGG
07148W	4841N	2651-14484	100	GGGG
07237W	3430N	2648-14354	60	GGGG
07303W	3305N	2648-14361	70	GGGG
07329W	5139N	2648-14363	70	GGGG
07401W	5005N	2653-14594	90	GGGG
07420W	3013N	2649-14424	60	GGGG
07528W	5005N	2654-15052	100	GGFG
07544W	4847N	2649-14430	90	GGGG
07608W	2721N	2649-14433	70	GGGG
07757W	2555N	2650-14494	40	GGGG
07820W	2429N	2650-14500	20	GGGG
08655W	5006N	2644-15514	20	GGGG
08823W	5005N	2645-15572	40	GGGG
08948W	5006N	2646-16030	90	FGGG
09034W	5129N	2647-16082	10	GGGG
09114W	5006N	2647-16084	50	GGGG
09240W	5005N	2648-16142	40	GGGG
09326W	5130N	2649-16194	30	GGGG
09823W	2429N	2646-16103	100	GGGG
09951W	2429N	2647-16161	10	GGGG
11205W	5129N	2644-17343	80	GGGG

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

APPENDIX

EXPLANATION OF OBSERVATION ID

The day after the 999th day of operation of Landsat 1, the first digit of the observation ID becomes a 5, signifying that the 1000th day of operation has been reached. The next three digits, which correspond to the count of days since launch, return to 000. On each day thereafter the count, as before, increases by one. The ID format for Landsat 1 is illustrated below:

1000 - hhmms
--
--
1998 - hhmms
1999 - hhmms April 18, 1975
5000 - hhmms April 19, 1975
5001 - hhmms (Days since launch equal 1001)
--
--

The same general identification procedure will be used for Landsat 2 imagery. The day after the 999th day of operation of Landsat 2, the first digit of the observation ID becomes a 6, and the next three digits return to 000 as explained above. An illustration follows:

2000 - hhmms
--
--
2999 - hhmms
6000 - hhmms
6001 - hhmms (Days since launch equal 1001)
--
--

Key: hh = hours
mm = minutes
s = tens of seconds

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